Bid Documents - November 30, 2012
VA Project No. 539-13-112

Correct Access / Site Issues (FTD)

Department of Veterans Affairs Medical Center
1000 S. Ft. Thomas Ave.
Fort Thomas , Kentucky 41075

JOHN POE ARCHITECTS
ARCHITECTURE PLANNING INTERIOR DESIGN
116 EAST THIRD STREET
DAYTON, OHIO 45402
937.461.3290 P
937.461.0260 F

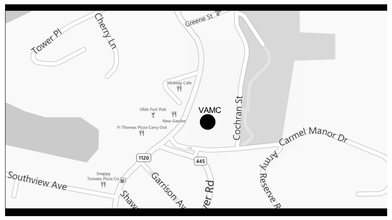
KLEINGERS & ASSOCIATES
CIVIL ENGINEERING
6305 CENTRE PARK DRIVE
WEST CHESTER, OH 45069
513.779.7851 P
513.779.7852 F

GENERAL CONSTRUCTION NOTES

* PLEASE NOTE THAT THE TERM PROJECT ENGINEER REFERS TO THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.

1. ALL WORK SHALL COMPLY WITH THE LATEST NFPA 101 LIFE SAFETY CODE, INTERNATIONAL BUILDING CODE, AND OTHER COES AS IDENTIFIED IN VHA PROGRAM GUIDE PG-18-3, TOPIC 01, CODES, STANDARDS AND EXECUTIVE ORDERS WHICH CAN BE FOUND ON THE DEPARTMENT OF VETERAN AFFAIRS, TECHNICAL INFORMATION LIBRRARY WEBSITE.
2. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE LATEST ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD (ABAAS) AND DEPARTMENT OF VETERANS AFFAIRS BARRIER FREE DESIGN GUIDE PG-18-13 WHICH CAN BE FOUND ON THE DEPARTMENT OF VETERANS AFFAIRS TECHNICAL INFORMATION LIBRARY WEBSITE.
3. CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE, EXAMINE AND ACCEPT EXISTING ONDITIONS PRIOR TO BIDDING. SITE VISITS TO BE COORDINATED WITH THE PROJECT ENGINEER.
4. CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REFINISH, TO MATCH ADJACENT EXISTING SURFACES, ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED DURING THE COURSE OF DEMOLITION OR NEW WORK.
5. WHERE REMOVAL OF EXISTING WORK IS REQUIRED FOR INSTALLATION OF NEW WORK, CONTRACTOR SHALL REPAIR EXISTING CONSTRUCTION TO REMAIN OR PROVIDE NEW CONSTRUCTION TO MATCH EXISTING ADJACENT SURFACES TO REMAIN.
6. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING NEW MATERIALS.
7. CONTRACTOR IS RESPONSIBLE TO VERIFY SIZES OF ALL EQUIPMENT, ETC. TO BE INSTALLED AS PART OF THIS PROJECT, AND WHERE NECESSARY, MAKE SPECIAL PROVISIONS TO INSTALL EQUIPMENT THAT IS TOO LARGE TO FIT THROUGH FINISHED OPENINGS.
8. ALL EXPOSED NEW WORK IS TO RECEIVE NEW FINISHES UNLESS SPECIFICALLY NOTED OTHERWISE. IF NO FINISH IS INDICATED AT A PARTICULAR SURFACE, CONTRACTOR SHALL PROVIDE FINISH(S) AS INDICATED AT SIMILAR CONDITIONS.
9. CONTRACTOR SHALL PROVIDE COMPLETE AND FULLY OPERATIONAL SYSTEMS WHICH COMPLY WITH STATED CODES AND REGULATIONS. WHERE THE OMISSION OF A PART OR ELEMENT OF A SYSTEM WOULD RESULT IN THE NON-OPERATION, OR INCORRECT OPERATION OF A SYSTEM, CONTRACTOR SHALL INCLUDE SAID PART OR ELEMENT AS PART OF THE WORK.
10. ALL PENETRATIONS THROUGH NEW AND/OR EXISTING SMOKE OR FIRE RATED WALLS SHALL BE SMOKE/FIRE STOPPED AS REQUIRED BY THE RATING OF THE WALL.

VICINITY MAP



DRAWING INDEX

GRAPHIC SYMBOLS

ELEVATION
SECTION/DETAIL NUMBER
DRAWING NUMBER
NOTE
BEARING
REVISION
CEILING HEIGHT/ FINISH DESIGNATION
COLUMN GRID
ROOM NUMBER
WINDOW OPENING
DOOR OPENING

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PRINTING

REVISIONS

STATE OF OHIO JOHN A POE 6549 REGISTERED ARCHITECT

SET NO.

VA PROJECT NO. 539-13-112
JPA PROJECT NO. 12027.00

DATE 11/30/2012

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EROSION CONTROL NOTES

1. **DESCRIPTION OF CONSTRUCTION:**
A SITE PLAN FOR PROPOSED ACCESS DRIVE AND PARKING LOT RENOVATIONS WITH APPROPRIATE STORM AND GRADING MEASURES.

2. **AREA AFFECTED BY CONSTRUCTION (GRADED AREA):**
APPROXIMATELY 1.70 ACRES.

3. **EXISTING SOIL DATA:**
NICHOLSON SILT LOAM (NIB), 1 TO 6 PERCENT SLOPES

4. **RECEIVING WATERS:**
TRIBUTARY TO OHIO RIVER

5. **POTENTIAL POLLUTION SOURCES:**
– REMOVAL OF NATURAL PLANT COVER.
– CUT AND FILL AREAS EXPOSED TO EROSION AND RUNOFF PRIOR TO STABILIZATION.
– CHANGES IN VOLUME AND DURATION OF WATER CONCENTRATIONS CAUSED BY ALTERING STEEPNESS, DISTANCE AND SURFACE ROUGHNESS.
– ROADWAY SUBGRADE PRIOR TO PAVING.
– REDUCTION OF PERMEABILITY OF SOILS CAUSING ADDITIONAL RUNOFF DUE TO COMPACTION BY HEAVY EQUIPMENT.

6. **RUNOFF COEFFICIENTS: (FOR APPROPRIATE DRAINAGE AREA)**
PRE–DEVELOPMENT RUNOFF COEFFICIENT = 0.82
POST CONSTRUCTION RUNOFF COEFFICIENT = 0.81

7. **PROJECT SCHEDULE:**

GENERAL CONSTRUCTION SEQUENCE *
A. INSTALL SEDIMENT CONTROL MEASURES
B. PRESERVE AND PROTECT EXISTING VEGETATION
C. INSTALL STORM WATER MANAGEMENT MEASURES
D. CONSTRUCT SITE UTILITIES
E. GRADE SITE / STOCKPILE TOPSOIL
F. TEMPORARY VEGETATIVE STABILIZATION OF CONTROL MEASURES
G. VEGETATIVE COVER ON ALL AREAS TO BE EXPOSED LONGER THAN 45 DAYS
H. INSTALL ROAD AND PARKING SUBGRADE
I. SURFACE ROADS AND PARKING
J. PERMANENT VEGETATIVE STABILIZATION

* TO BE FOLLOWED IN GENERAL ORDER FOR BEST MANAGEMENT PRACTICE, SOME INDIVIDUAL SITE CONSTRUCTION MAY NOT ALLOW FOR EXACT SEQUENCE.

8. **CONTROL MEASURES FOR STORM WATER RUNOFF, EROSION AND SEDIMENT:**

STABILIZATION OF DENUDED AREAS AND SOIL STOCKPILES

PERMANENT OR TEMPORARY SOIL STABILIZATION WILL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION WILL ALSO BE APPLIED TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR MORE THAN 45 DAYS. APPLICABLE PRACTICES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED. SOIL STABILIZATION MEASURES WILL BE SELECTED TO BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE. SOIL STOCKPILES WILL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES TO PREVENT SOIL LOSS.

ESTABLISHMENT OF PERMANENT VEGETATION

A PERMANENT VEGETATIVE COVER WILL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION WILL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE SEVERE WEATHER CONDITIONS.

PROTECTION OF ADJACENT PROPERTIES

PROPERTIES ADJACENT TO THE SITE OF LAND DISTURBANCE WILL BE PROTECTED FROM SEDIMENT DEPOSITION. THIS WILL BE ACCOMPLISHED BY PRESERVING A WELL VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF LAND DISTURBANCE, BY INSTALLING PERIMETER CONTROLS SUCH AS SEDIMENT TRAPS, FILTERS OR DIKES, OR SEDIMENT BASINS, OR BY A COMBINATION OF SUCH MEASURES. VEGETATED FILTER STRIPS MAY BE USED ALONE ONLY WHERE RUNOFF IN SHEET FLOW IS EXPECTED. FILTER STRIPS SHOULD BE AT LEAST 15 FEET IN WIDTH. IF AT ANY TIME IT IS FOUND THAT A VEGETATED FILTER STRIP ALONE IS INEFFECTIVE IN STOPPING SEDIMENT MOVEMENT INTO ADJACENT PROPERTY, ADDITIONAL PERIMETER CONTROLS MUST BE PROVIDED.

TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES

SEDIMENT BASINS, DIVERSIONS, SEDIMENT TRAPS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON–SITE WILL BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS WILL BE SEEDED AND MULCHED AFTER INSTALLATION.

SEDIMENT BASINS

STORMWATER RUNOFF CONTAINING DAMAGING AMOUNTS OF SEDIMENT SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY.

CUT AND FILL SLOPES

CUT AND FILL SLOPES WILL BE DESIGNED AND CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. SLOPES WHICH ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF CONSTRUCTION WILL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

STORMWATER MANAGEMENT

CONCENTRATED STORMWATER RUNOFF LEAVING THE SITE WILL BE DISCHARGED DIRECTLY INTO A WELL DEFINED ADEQUATELY PROTECTED NATURAL OR MAN–MADE OFF SITE RECEIVING CHANNEL OR PIPE. IF NO OFF SITE CHANNEL OR PIPE EXISTS, THE STORMWATER WILL BE DETAINED ON SITE IN A SUITABLE RETENTION/DETENTION FACILITY.

STABILIZATION OF WATERWAYS AND OUTLETS

ALL ON SITE STORMWATER CONVEYANCE CHANNELS WILL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE EXPECTED VELOCITY OF FLOW FROM A 10 YEAR FREQUENCY STORM WITHOUT EROSION. DESIGN FOR A LARGER MAY BE NECESSARY FOR PROTECTION FROM THE STORMWATER FLOW. STABILIZATION ADEQUATE TO PREVENT EROSION WILL ALSO BE PROVIDED AT THE OUTLETS OF ALL PIPES AND PAVED CHANNELS.

STORM WATER INLET PROTECTION

ALL STORM SEWER INLETS WHICH ARE MADE OPERABLE DURING CONSTRUCTION WILL BE PROTECTED SO THAT SEDIMENT–LADEN WATER WILL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

WORKING IN OR CROSSING WATERCOURSES

CONSTRUCTION VEHICLES WILL BE KEPT OUT OF WATERCOURSES WHENEVER POSSIBLE. WHERE IN–CHANNEL WORK IS NECESSARY, PRECAUTIONS WILL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. THE CHANNEL (INCLUDING BED AND BANKS) WILL ALWAYS BE RESTABILIZED IMMEDIATELY AFTER IN–CHANNEL WORK IS COMPLETED. WHERE A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING WILL BE PROVIDED.

CONSTRUCTION ACCESS ROUTES AND PARKING AREAS

WHENEVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS WILL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. TEMPORARY CONSTRUCTION ROADS WILL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT. ROADBEDS SHALL BE AT LEAST 14 FEET WIDE FOR ONE–WAY TRAFFIC AND 20 FEET WIDE FOR TWO–WAY TRAFFIC. TEMPORARY PARKING AREAS WILL BE LOCATED ON NATURALLY FLAT AREAS WHENEVER POSSIBLE TO MINIMIZE GRADING. GRADES FOR SAID PARKING AREAS SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE BUT NOT EXCEED 4 PERCENT SLOPE. BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO ROADS AND PARKING AREAS WILL BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED.

DISPOSITION OF TEMPORARY MEASURES

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE DISPOSED OF AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

MAINTENANCE

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

• STORM INLET PROTECTION

INLET STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE INLET PROTECTION SHALL BE RESTORED TO ITS ORIGINAL WORKING CONDITION. AT NO TIME SHALL MORE THAN A 2" BUILD UP OF SEDIMENT REMAIN AROUND THE INLET PROTECTION.

• FILTER STRIPS

A HEALTHY GROWTH OF VEGETATION CAN BEST BE MAINTAINED BY FERTILIZING, REMOVING SEDIMENT WHEN FILTER BECOMES CLOGGED, AND BY PREVENTING CONSTRUCTION TRAFFIC FROM DRIVING ACROSS FILTER STRIPS.

• SILT FENCES AND FILTER BARRIERS

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

• STRAW BALE BARRIERS

STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

9. **CONSTRUCTION CONTROL PRACTICES:**

SILT FENCE (SF) (SEE DETAIL)

MATERIAL: SYNTHETIC FILTER FABRIC SHALL BE A SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS.

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75 PERCENT (MIN)
TENSILE STRENGTH AT 20% (MAX) ELONGATION	EXTRA STRENGTH 50 lbs/lin. in. (MIN) STANDARD STRENGTH 30 lbs/lin. in. (MIN)
FLOW RATE	0.3 gal./sq. ft./min. (MIN)

* REQUIREMENTS REDUCED BY 50% AFTER 6 MONTHS OF INSTALLATION.

SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE OF ZERO DEGREES F TO 120 DEGREES F.

BURLAP SHALL BE 10 OUNCES PER SQ. YD. OF FABRIC.

POSTS FOR SILT FENCES SHALL BE EITHER 4" x 4" WOOD OR STEEL WITH A MIN. LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MIN. OF 42 INCHES IN HEIGHT, A MIN. OF 14 GA. AND SHALL HAVE A MAX. MESH SPACING OF 6 INCHES.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXCEED 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MIN. 6 INCH OVERLAP, AND SECURELY SEALED.

POSTS SHALL BE SPACED AT A MAX. OF 10 FEET APART. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS APPLYING.

CHECK DAM (CD) (SEE DETAIL)

CHECK DAMS ARE USUALLY INEFFECTIVE FOR CATCHING SEDIMENT BUT CAN SLOW FLOW VELOCITIES AND REDUCE CHANNEL EROSION. ROCK TYPE AND SIZE OF THE DAM ARE TO BE DETERMINED BY THE ENGINEER.

IF AT ANY TIME IT IS FOUND THAT A CHECK DAM ALONE IS INEFFECTIVE IN ADEQUATELY PERFORMING ITS FUNCTION, ADDITIONAL CONTROL MEASURES MUST BE PROVIDED.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (SEE DETAIL)

CONSTRUCTION SPECIFICATIONS

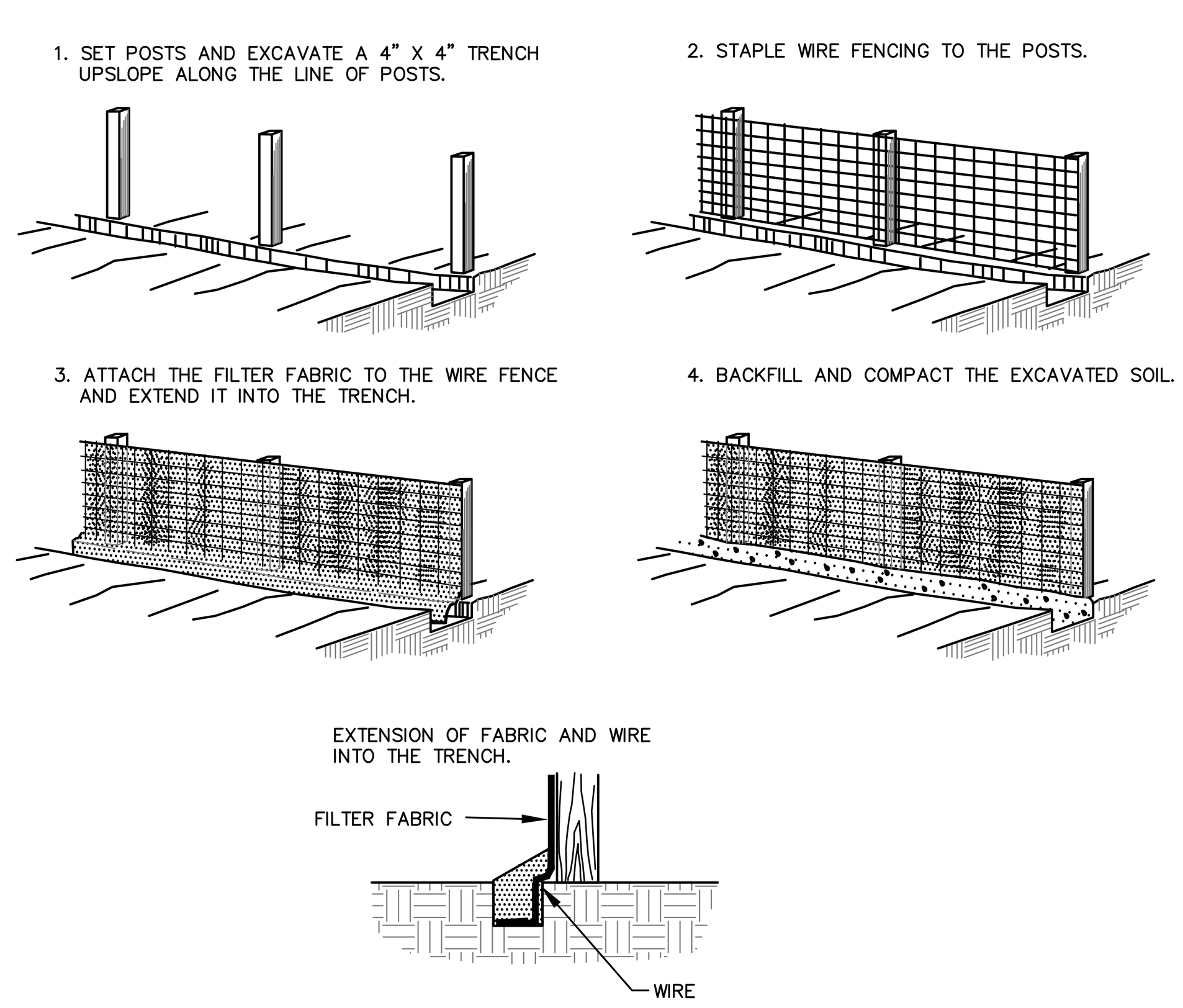
1. THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 2–TO 3–INCH STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 6 INCHES. USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE. GEOTEXTILE SHALL HAVE A GRAB TENSILE STRENGTH OF 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS AND IN ANY CASE SHALL NOT BE LESS THAN 12 FEET WIDE.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
5. LOCATE CONSTRUCTION ENTRANCES AND EXITS TO LIMIT SEDIMENT LEAVING THE SITE AND TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES AND ENTRANCES AT CURVES IN PUBLIC ROADS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
7. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY SHALL BE REMOVED IMMEDIATELY. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
8. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
9. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, STRAW BALES, OR OTHER APPROVED METHODS.
10. A CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE AND FROM BEING DIRECTED OUT ONTO PAVED SURFACES.

INSPECTION AND MAINTENANCE

1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
2. REPLACE GRAVEL MATERIAL WHEN SURFACE VOIDS ARE VISIBLE.
3. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.
4. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS.

10. **FINAL SITE STABILIZATION**

FINAL SITE STABILIZATION IS CONSIDERED ACHIEVED ONCE ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ARE REMOVED AND DISPOSED OF AND ALL TRAPPED SEDIMENT HAS BEEN PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

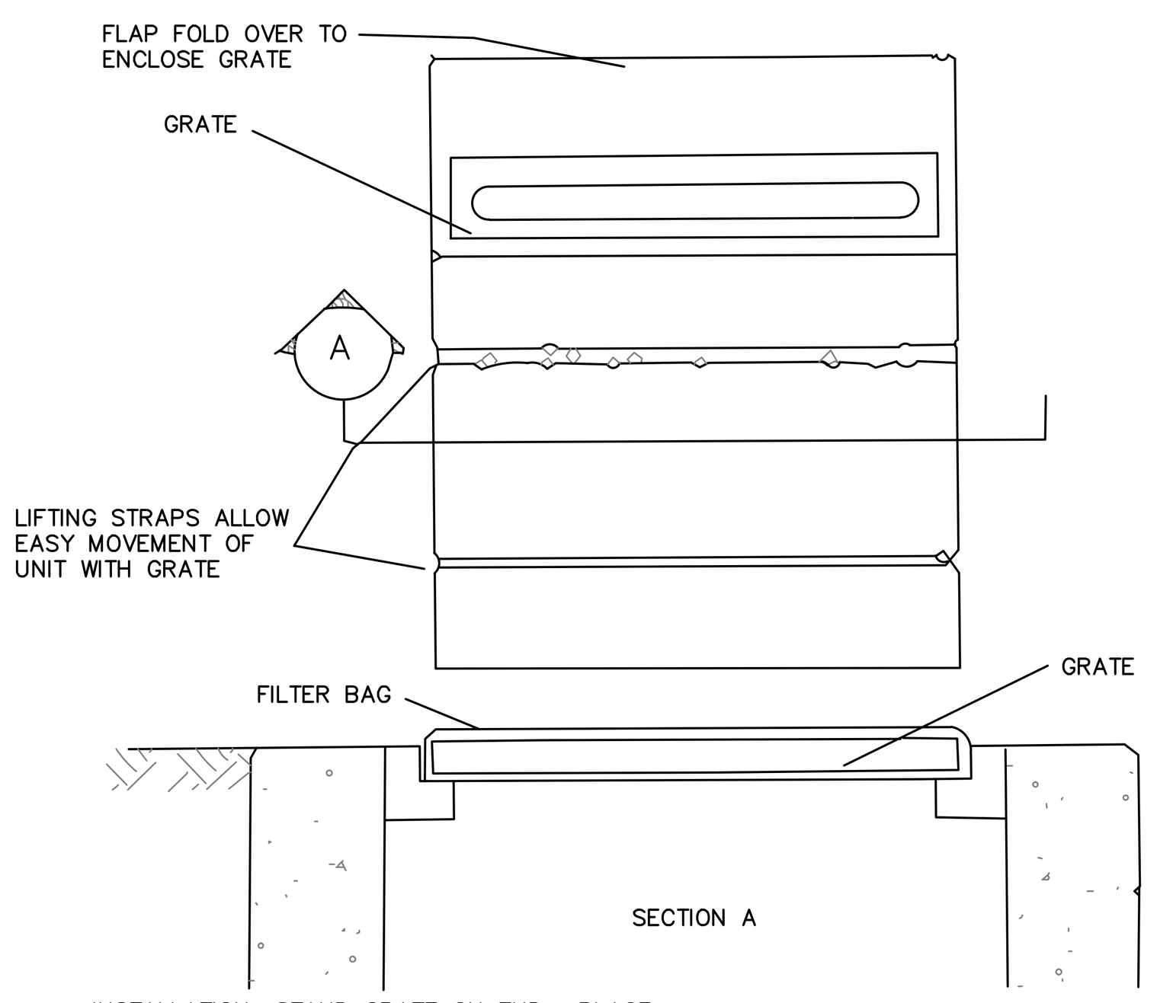


SILT FENCE (SF)

FILTER BAG NOTES:

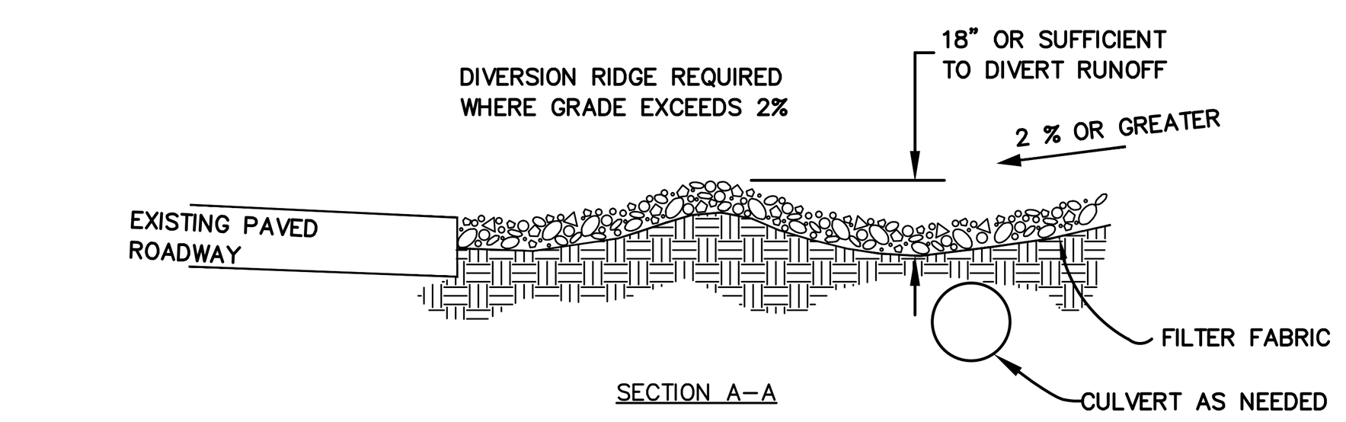
1. TO BE INSTALLED ON EXISTING CATCH BASINS PRIOR TO STARTING CONSTRUCTION.

2. TO BE INSTALLED ON EXISTING/PROPOSED CATCH BASINS ONCE BUILT AND TO REMAIN ON UNTIL 75% OF THE LANDSCAPE AREA IS VEGETATED.

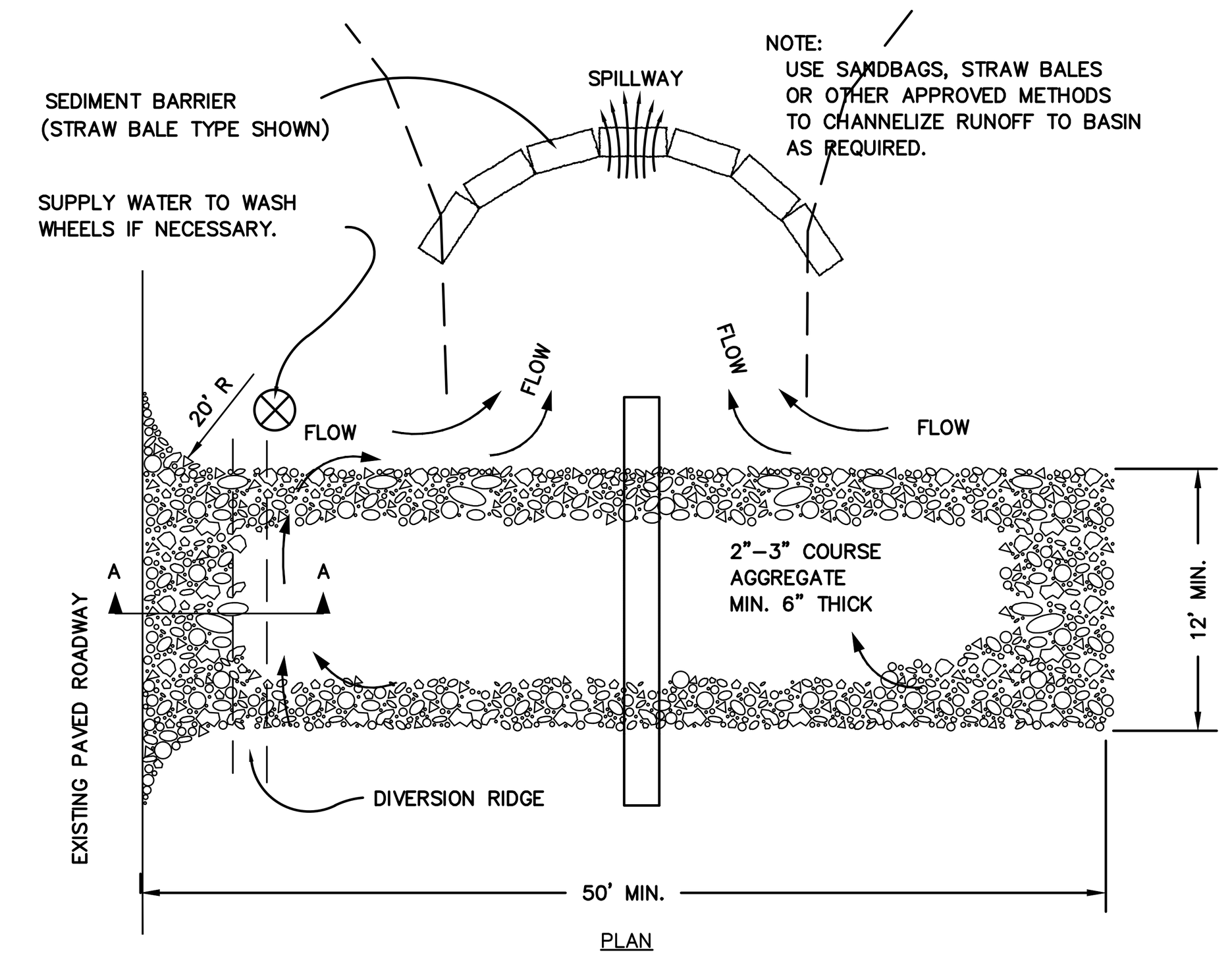


INSTALLATION: STAND GRATE ON END. PLACE FILTER BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP.
PULL UP SLACK. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR FILTER BAG WILL NOT WORK PROPERLY
HOLDING HANDLES CAREFULLY PLACE FILTER BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME.
MAINTENANCE WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

FILTER BAG DETAIL



SECTION A–A



PLAN

NOTE: CONSTRUCTION ENTRANCE LOCATIONS SHALL BE FIELD DETERMINED BASED ON PHASING OF THE PROJECT.

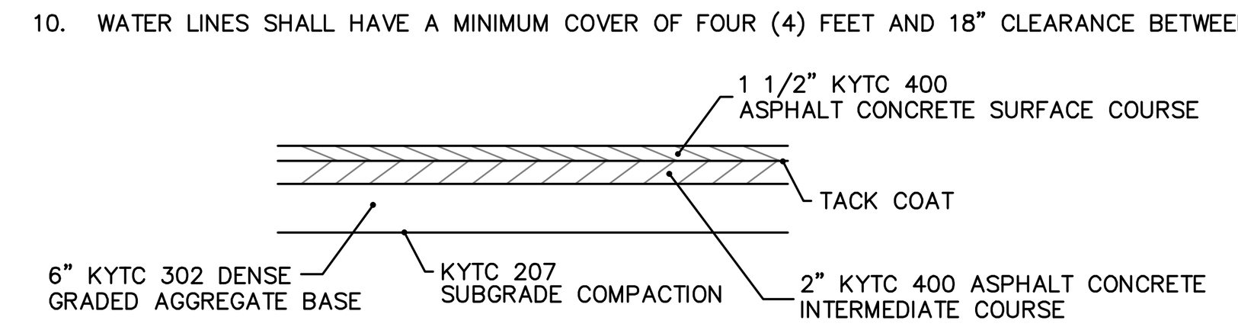
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

GENERAL NOTES

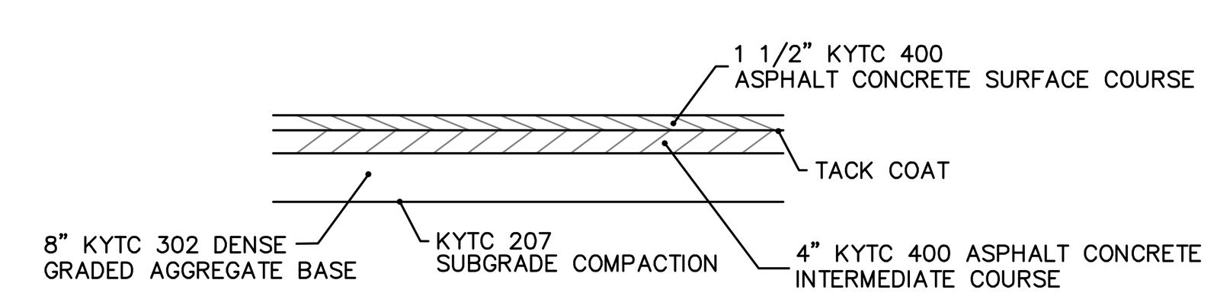
1. ALL PLANS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT "RULES AND REGULATIONS" OF FORT THOMAS, CAMPBELL COUNTY, AND APPLICABLE KENTUCKY TRANSPORTATION CABINET STANDARDS.
2. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE KENTUCKY EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH THE PROJECT ENGINEER WITH WRITTEN REPORTS.
3. ITEM NUMBERS REFER TO THE KENTUCKY TRANSPORTATION CABINET CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF CAMPBELL COUNTY. WHEN IN CONFLICT, CAMPBELL COUNTY REQUIREMENTS SHALL PREVAIL.
4. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED. RADIUS DIMENSIONS ARE TO BACK OF CURB.
5. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
6. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
7. ALL FILL UNDER SECTION SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
8. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
9. ADJUST ALL EXISTING CASTINGS CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
10. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY FORT THOMAS, CAMPBELL COUNTY, AND THE KENTUCKY EPA.
11. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF KENTUCKY SPECIFICATIONS.
12. PARKING SIGNAGE TO COMPLY WITH VA REGULATIONS AND REQUIREMENTS. CONTACT PROJECT ENGINEER FOR SIGNAGE DESIGN DOCUMENTS.
13. BEFORE CONSTRUCTION OPERATIONS BEGIN, CONTRACTOR SHALL PROVIDE A CHAIN LINK CONSTRUCTION FENCE, SEVEN FEET MINIMUM HEIGHT, AROUND THE CONSTRUCTION AREA GENERALLY INDICATED BY THE CONSTRUCTION LIMITS AND AS APPROVED BY THE PROJECT ENGINEER ON THE DRAWINGS. PROVIDE GATES AS REQUIRED FOR ACCESS WITH NECESSARY HARDWARE, INCLUDING HASPS AND PADLOCKS. FASTEN FENCE FABRIC TO TERMINAL POSTS WITH TENSION BANDS AND TO LINE POSTS AND TOP AND BOTTOM RAILS WITH TIE WIRES SPACED AT MAXIMUM 15 INCHES. BOTTOM OF FENCES SHALL EXTEND TO ONE INCH ABOVE GRADE. RELOCATE THE FENCE AS NEEDED FOR PHASING WHEN DIRECTED BY PROJECT ENGINEER.
14. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.

UTILITY NOTES

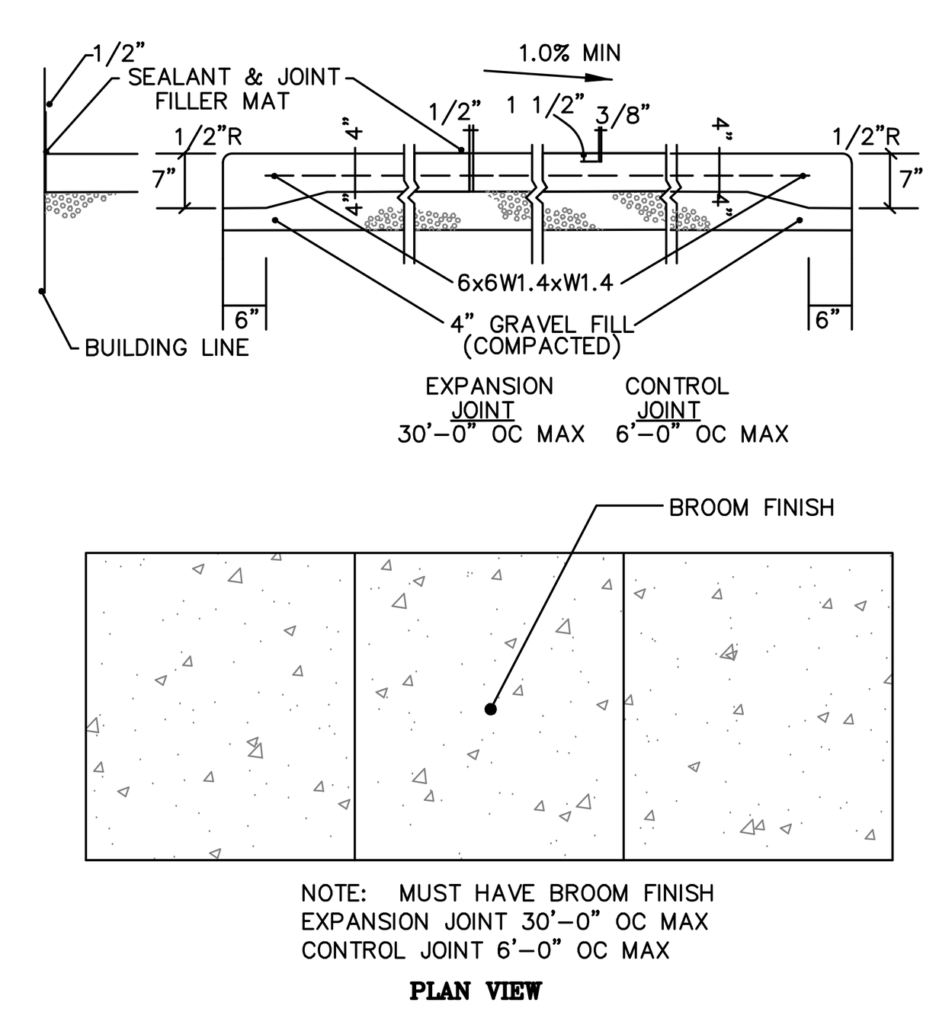
1. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
2. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE STORM SEWER SYSTEM.
3. ALL STORM STRUCTURES ARE KENTUCKY CABINET OF TRANSPORATION TYPES UNLESS OTHERWISE INDICATED.
4. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
5. ANY CLEANOUTS TO BE PLACED IN THE PAVEMENT SHALL HAVE TRAFFIC BEARING LIDS/COVERS.
6. DISTANCES SHOWN FOR STORM SEWER PIPES ARE MEASURED FROM CENTER OF THE STRUCTURE. CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM STRUCTURES ARE SHOWN TO THE CENTER OF THE STRUCTURE. UNLESS OTHERWISE NOTED.
7. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
8. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.
9. FORTY–EIGHT HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UNDERGROUND PROTECTION, INC, AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON–MEMBERS OF KENTUCKY UNDERGROUND PROTECTION, INC.
10. WATER LINES SHALL HAVE A MINIMUM COVER OF FOUR (4) FEET AND 18" CLEARANCE BETWEEN UTILITIES.



1/CS100 STANDARD DUTY ASPHALT PAVEMENT
N.T.S.



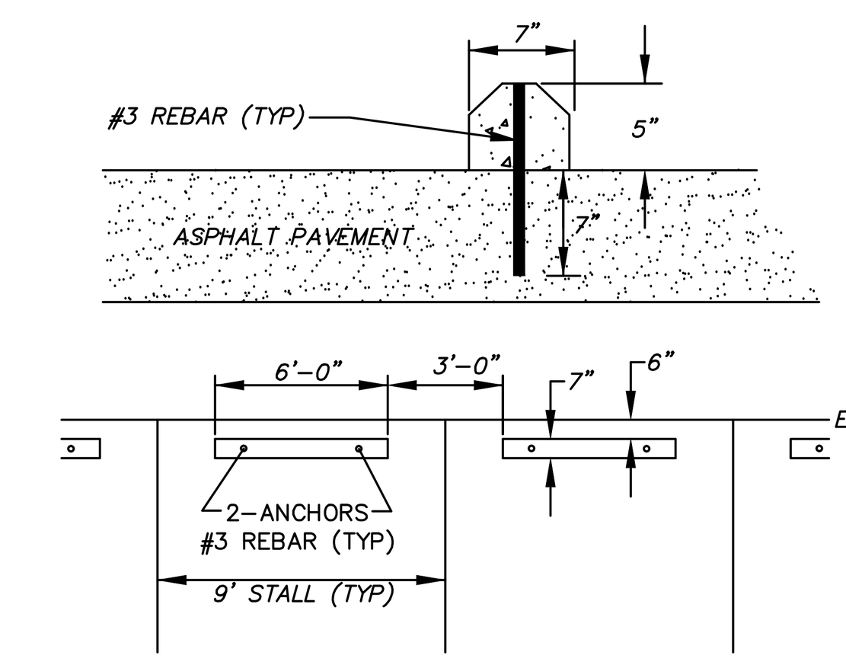
2/CS100 HEAVY DUTY ASPHALT PAVEMENT
N.T.S.



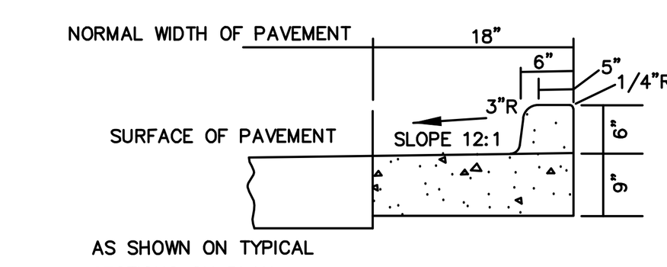
NOTE: MUST HAVE BROOM FINISH
EXPANSION JOINT 30'–0" OC MAX
CONTROL JOINT 6'–0" OC MAX

PLAN VIEW

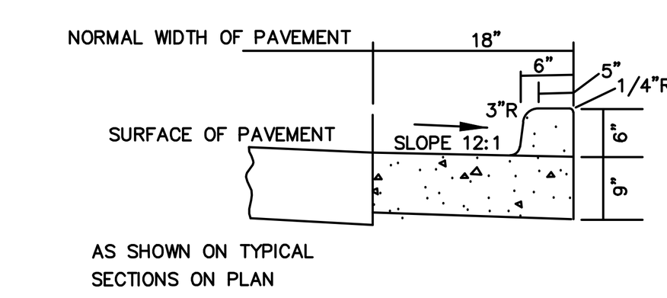
3/CS100 EXTERIOR CONCRETE SIDEWALK
N.T.S.



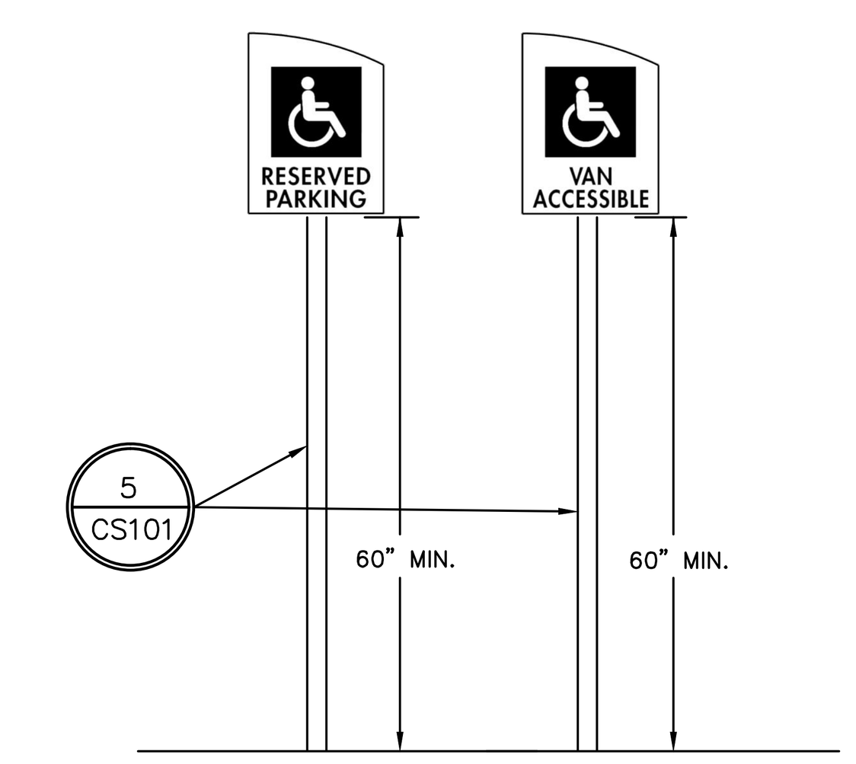
4/CS100 PRE–CAST WHEEL STOPS
N.T.S.



5/CS100 REVERSE CURB & GUTTER DETAIL
N.T.S.



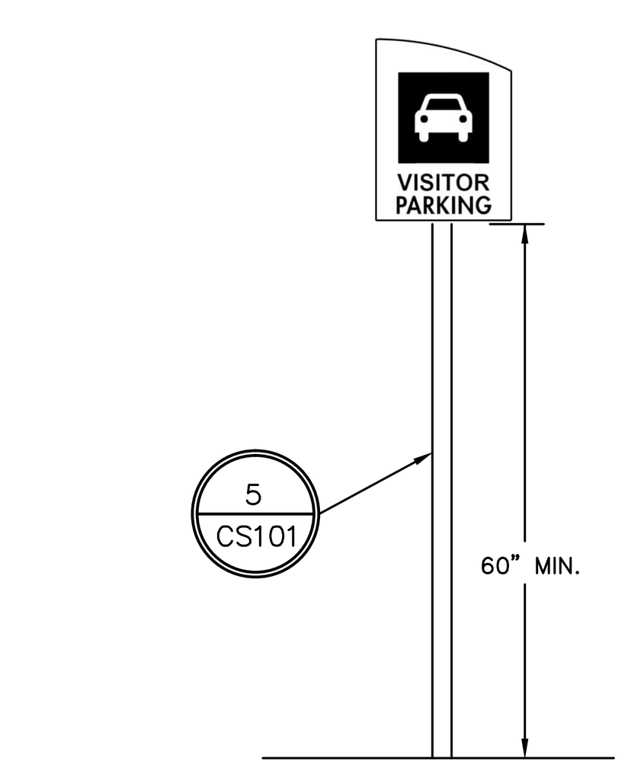
6/CS100 STANDARD CURB & GUTTER DETAIL
N.T.S.



NOTES: ONE PARKING SPACE MINIMUM SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS. CONTRACTOR TO VERIFY WITH PROJECT ENGINEER BEFORE ORDERING SIGNS.

ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE

7/CS100 ACCESSIBLE PARKING SIGN DETAIL
N.T.S.



8/CS100 VISITOR PARKING SIGN DETAIL
N.T.S.

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BID DOCUMENTS - (FULLY SPRINKLERED)

Revisions		Date

CONSULTANTS:

KLEINGERS & ASSOCIATES
6305 Centre Park Drive, West Chester, OH 45069
(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Drawing Title: GENERAL NOTES & DETAILS

Approved: Project Director

Project Title: Correct Access / Site Issues (FTD)

Location: Fort Thomas, Kentucky

Date: 11-30-12 | Checked: TEM | Drawn: MLZ

Project No.: VA Project No. 539-13-112; JPA Project No. 12027.00

Building Number: 64

Drawing Number: CS100

Office of Construction and Facilities Management
Department of Veterans Affairs

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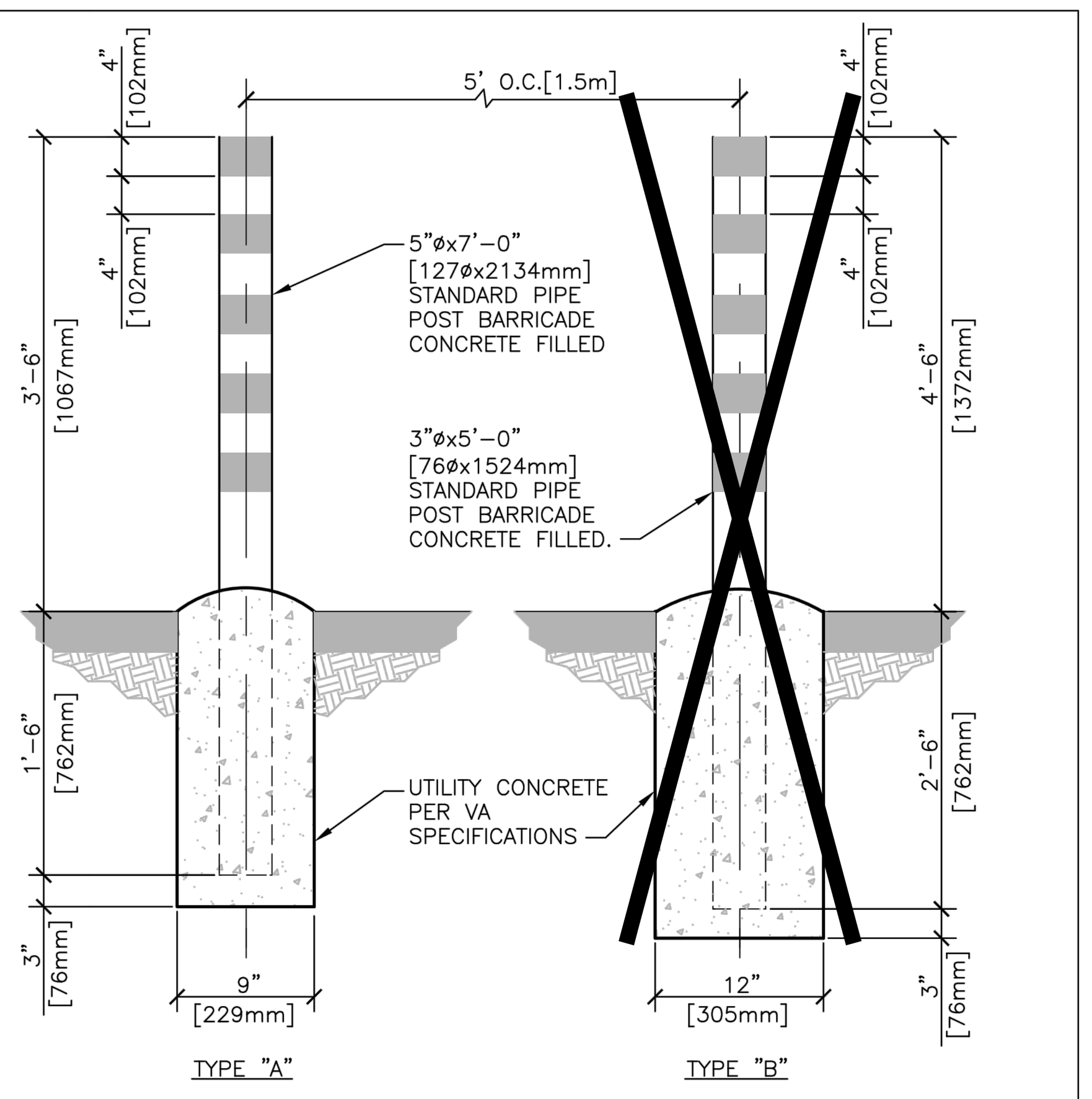


NOTES:

1. POST BARRICADES SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1). ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS AND STRIPES CONSISTING OF 4" [102mm] BANDS OF YELLOW REFLECTORIZED TAPE SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.

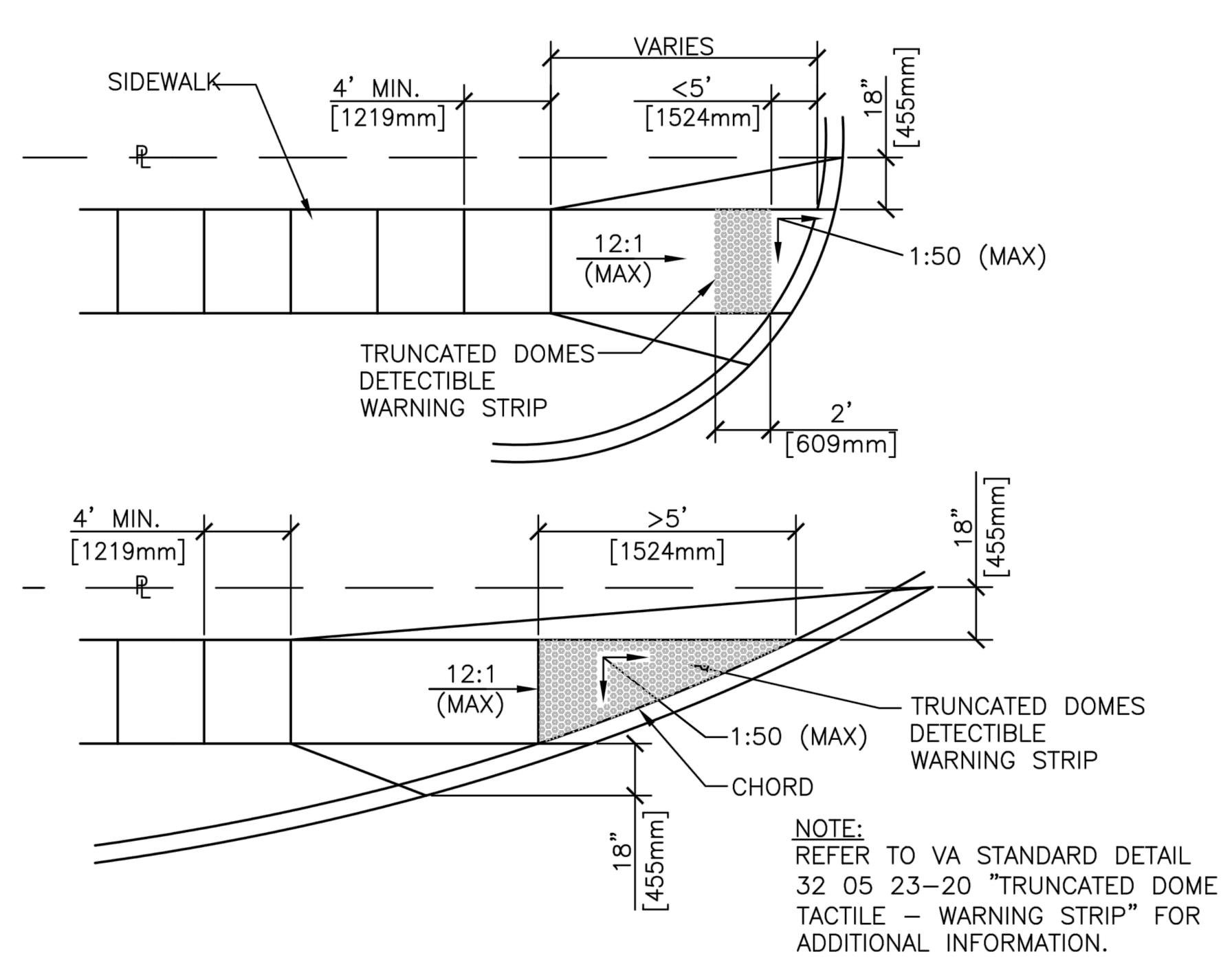
1 CS101 CONCRETE POST BARRICADES

NTS

Department of Veterans Affairs | DETAIL TITLE / CONCRETE POST BARRICADES

SCALE :NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-04.DWG



NOTE:
REFER TO VA STANDARD DETAIL 32 05 23-20 "TRUNCATED DOME TACTILE – WARNING STRIP" FOR ADDITIONAL INFORMATION.

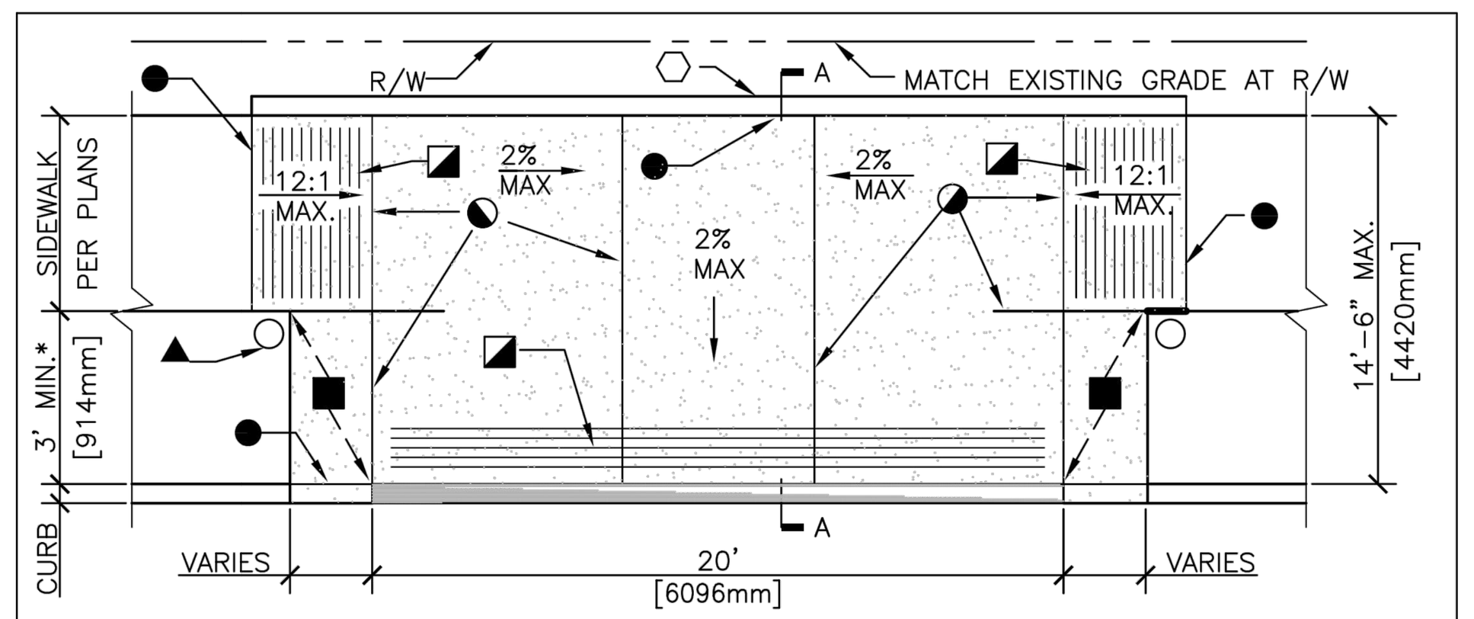
2 CS101 CURB ACCESS RAMP ALTERNATIVES

NTS

Department of Veterans Affairs | DETAIL TITLE / CONCRETE HEADER

SCALE :NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-13.DWG



* MAY BE REDUCED TO 1' [305mm] DUE TO R.O.W. CONSTRAINTS. HOWEVER, IF DISTANCE BETWEEN BACK OF CURB AND BACK OF SIDEWALK IS LESS THAN 7' [2134mm], THE DISABLED SPACE SHALL NOT BE DESIGNATED "VAN ACCESSIBLE".

■ WARP TO MATCH

◪ TACTILE GROOVES. PLACE GROOVES IN CONC. 1" [25mm] APART, 1/4" [6mm] WIDE, 1/8" [3mm] DEEP. GROOVES MAY BE SAWCUT OR TOOLED.

▲ TYPE 'A' POST BARRICADE PER VA STANDARD DETAIL 32 05 23-04 "CONCRETE POST BARRICADE". FINISH WITH BLUE ENAMEL AND 4" [100mm] WHITE REFLECTORIZED TAPE. THE ENGINEER SHALL APPROVE THE SHADE OF BLUE ENAMEL PRIOR TO USE. FACE OF POST BARRICADE SHALL BE 2" [50mm] FROM EDGE OF CONCRETE.

◑ 1/4" [6mm] DEEP SCORED JOINTS EVENLY SPACED (8' [2.4m] MAX. SPACING)

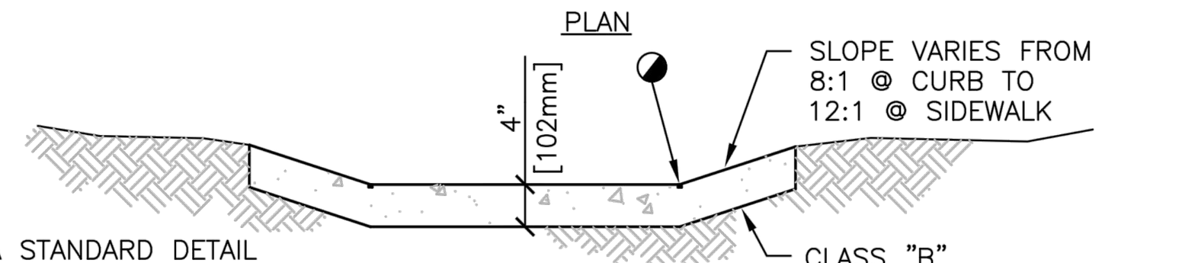
● 1/2" [13mm] BITUMINOUS JOINT FILLER.

NOTE:DEPRESSED CURB IN RAMP AREA SHALL BE PLACED MONOLITHIC WITH RAMP

△ TRUNCATED DOMES DETECTABLE WARNING STRIP

⬡ 6" [152mm] REVEAL VERTICAL CURB PER VA STANDARD DETAIL 32 05 23-17 "CONCRETE CURB AND TERMINAL SECTION" CURB MAY BE ELIMINATED IN CENTER 4' [1219mm] IF APPROVED BY ENGINEER

PLAN



SECTION A–A

NOTE:
SEE VA STANDARD DETAIL 32 05 23-10 "CURB ACCESS RAMP" FOR RAMP DETAIL AT GUTTER LINE.

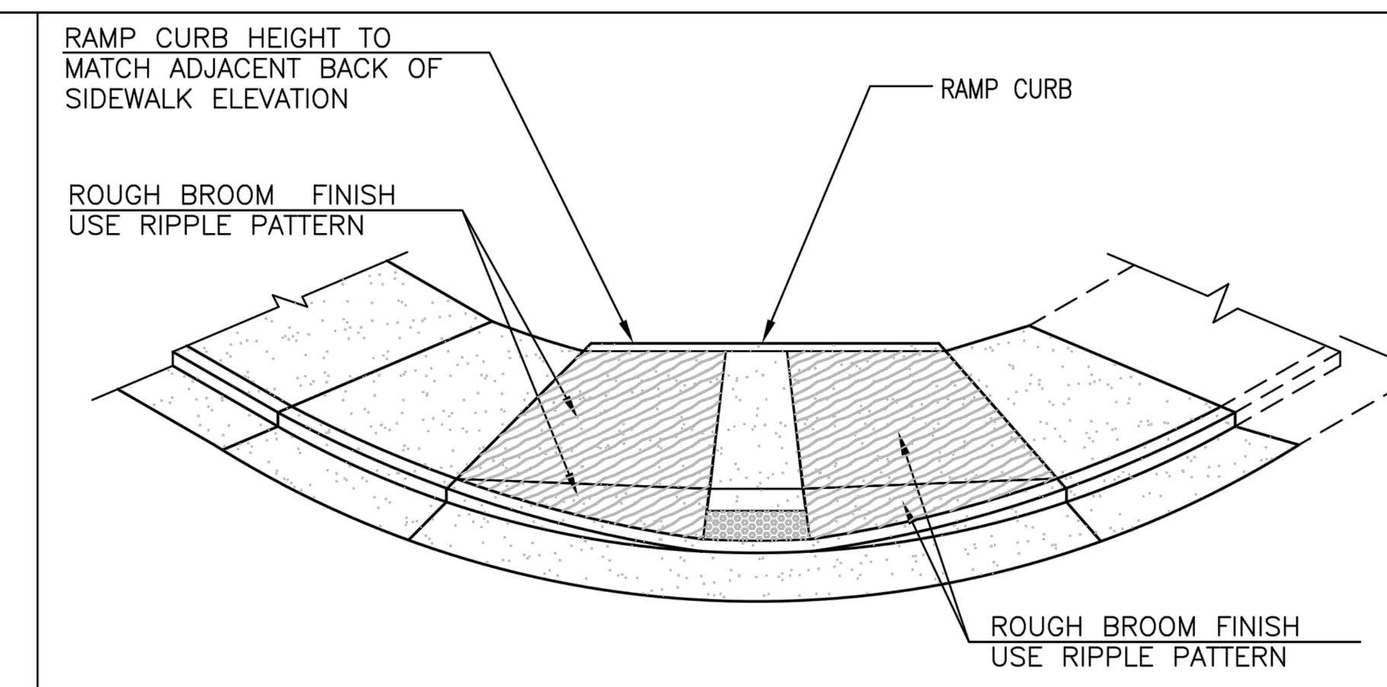
3 CS101 VAN ACCESSIBLE CURB ACCESS RAMP AT DISABLED PARKING STALLS

NTS

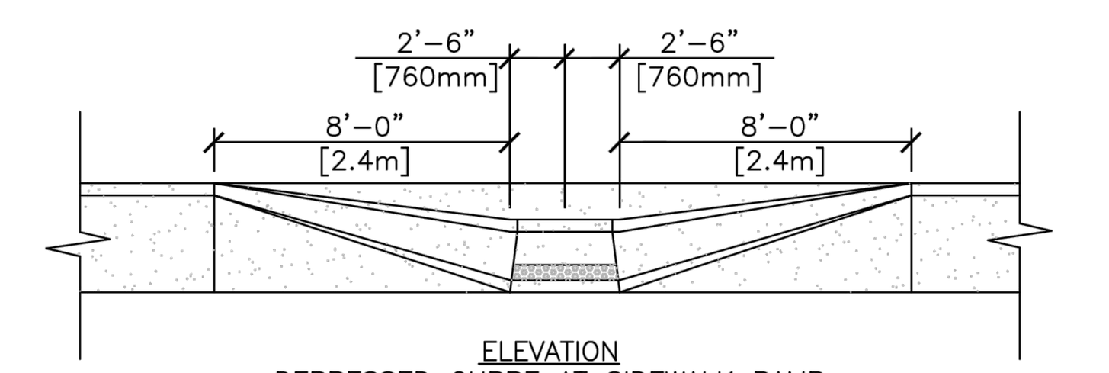
Department of Veterans Affairs | DETAIL TITLE / CURB ACCESS RAMP – AT DISABLED PARKING STALLS

SCALE :NONE

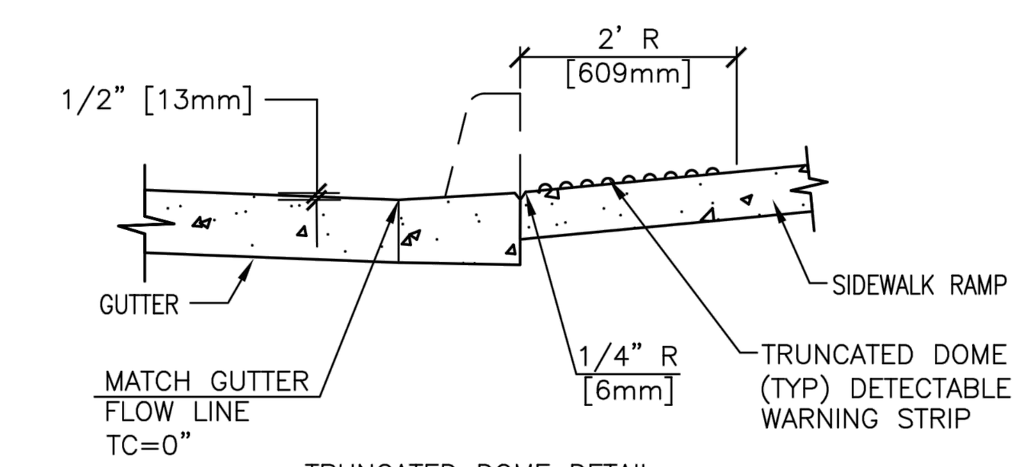
DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-15.DWG



PERSPECTIVE



ELEVATION
DEPRESSED CURBE AT SIDEWALK RAMP



TRUNCATED DOME DETAIL

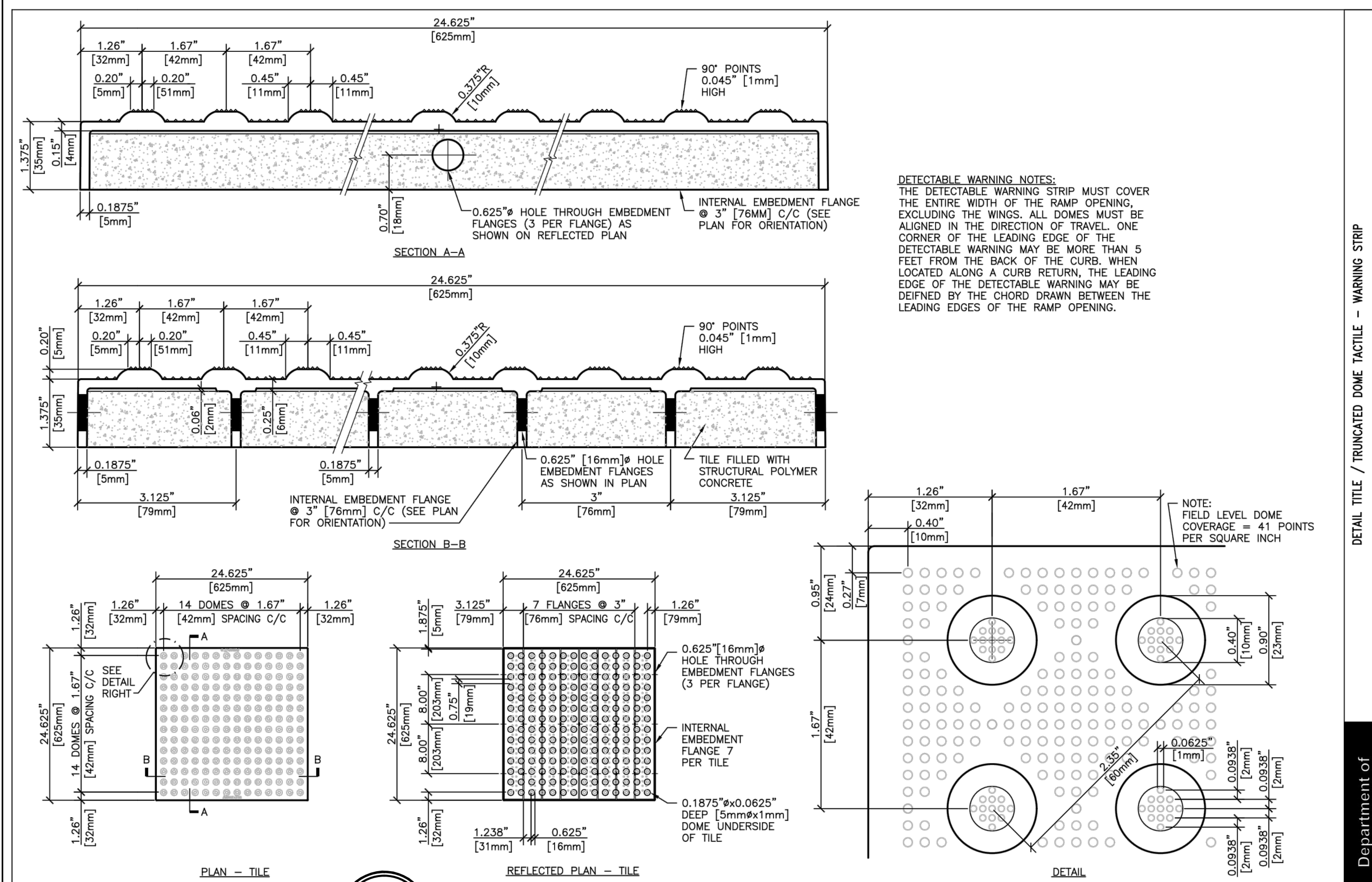
4 CS101 CURB ACCESS RAMP

NTS

Department of Veterans Affairs | DETAIL TITLE / CURB ACCESS RAMP

SCALE :NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-11.DWG



DETECTABLE WARNING NOTES:
THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL. ONE CORNER OF THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE MORE THAN 5 FEET FROM THE BACK OF THE CURB. WHEN LOCATED ALONG A CURB RETURN, THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE DEIFNED BY THE CHORD DRAWN BETWEEN THE LEADING EDGES OF THE RAMP OPENING.

5 CS101 TRUNCATED DOME TACTILE - WARNING STRIP

NTS

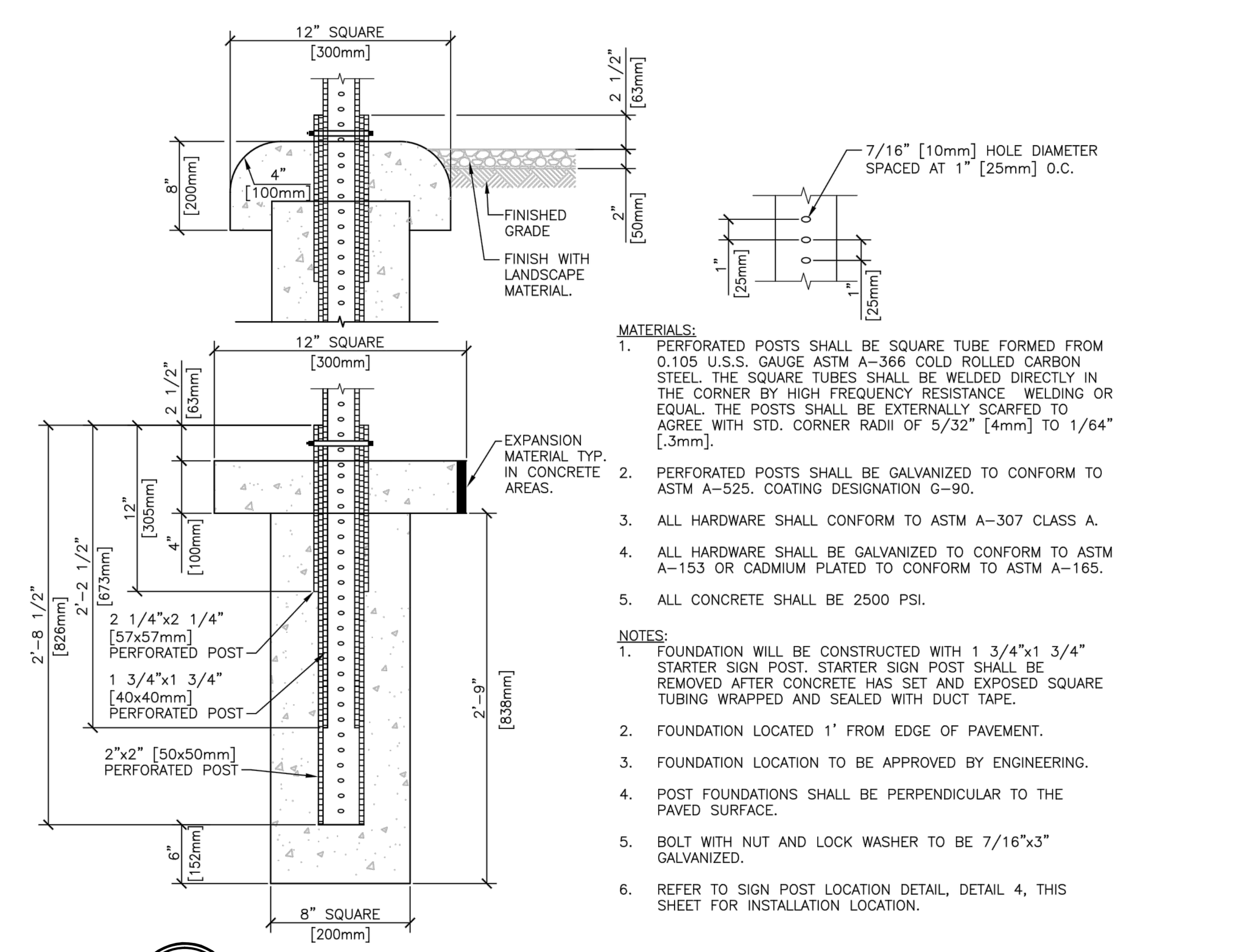
DETAIL TITLE / TRUNCATED DOME TACTILE – WARNING STRIP

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD320523-20.DWG

Department of Veterans Affairs



MATERIALS:

1. PERFORATED POSTS SHALL BE SQUARE TUBE FORMED FROM 0.105 U.S.S. GAUGE ASTM A-366 COLD ROLLED CARBON STEEL. THE SQUARE TUBES SHALL BE WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL. THE POSTS SHALL BE EXTERNALLY SCARFED TO AGREE WITH STD. CORNER RADII OF 5/32" [4mm] TO 1/64" [.3mm].
2. PERFORATED POSTS SHALL BE GALVANIZED TO CONFORM TO ASTM A-525. COATING DESIGNATION G-90.
3. ALL HARDWARE SHALL CONFORM TO ASTM A-307 CLASS A.
4. ALL HARDWARE SHALL BE GALVANIZED TO CONFORM TO ASTM A-153 OR CADMIUM PLATED TO CONFORM TO ASTM A-165.
5. ALL CONCRETE SHALL BE 2500 PSI.

NOTES:

1. FOUNDATION WILL BE CONSTRUCTED WITH 1 3/4"x1 3/4" STARTER SIGN POST. STARTER SIGN POST SHALL BE REMOVED AFTER CONCRETE HAS SET AND EXPOSED SQUARE TUBING WRAPPED AND SEALED WITH DUCT TAPE.
2. FOUNDATION LOCATED 1' FROM EDGE OF PAVEMENT.
3. FOUNDATION LOCATION TO BE APPROVED BY ENGINEERING.
4. POST FOUNDATIONS SHALL BE PERPENDICULAR TO THE PAVED SURFACE.
5. BOLT WITH NUT AND LOCK WASHER TO BE 7/16"x3" GALVANIZED.
6. REFER TO SIGN POST LOCATION DETAIL, DETAIL 4, THIS SHEET FOR INSTALLATION LOCATION.

6 CS101 SIGN POST DETAIL SQUARE TUBE FOUNDATION

NTS

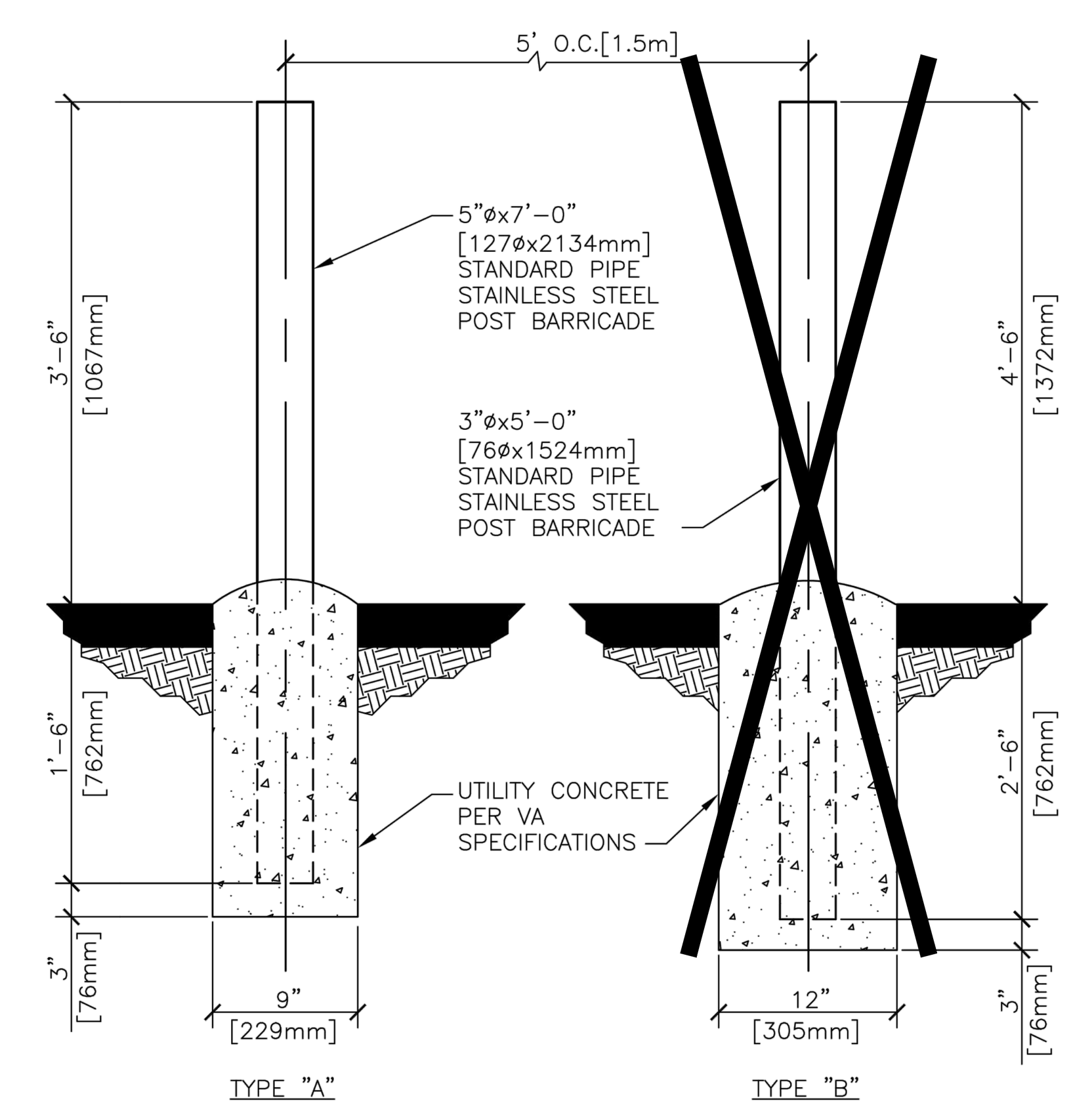
DETAIL TITLE / SIGN POST DETAIL SQUARE TUBE FOUNDATION

SCALE :NONE

DATE ISSUED: DECEMBER 2008

CAD DETAIL NO.: SD320523-19.DWG

Department of Veterans Affairs



NOTES:

1. FINISH COLOR COMBINATIONS, AND DECORATIVE OPTIONS, SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.

7 CS101 STAINLESS STEEL POST BARRICADES

NTS

Department of Veterans Affairs | DETAIL TITLE / STAINLESS STEEL POST BARRICADES

SCALE :NONE

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD320523-04.DWG

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BID DOCUMENTS - (FULLY SPRINKLERED)

Revisions		Date

CONSULTANTS:

KLEINGERS & ASSOCIATES
6305 Centre Park Drive, West Chester, OH 45069
(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Drawing Title: VA DETAILS

Approved: Project Director

Project Title: Correct Access / Site Issues (FTD)

Location: Fort Thomas, Kentucky

Date: 11-30-12 | Checked: TEM | Drawn: MLZ

Project No.: VA Project No. 539-13-112; JPA Project No. 12027.00

Building Number: 64

Drawing Number: CS101

Office of Construction and Facilities Management
Department of Veterans Affairs

DEMOLITION KEY NOTES

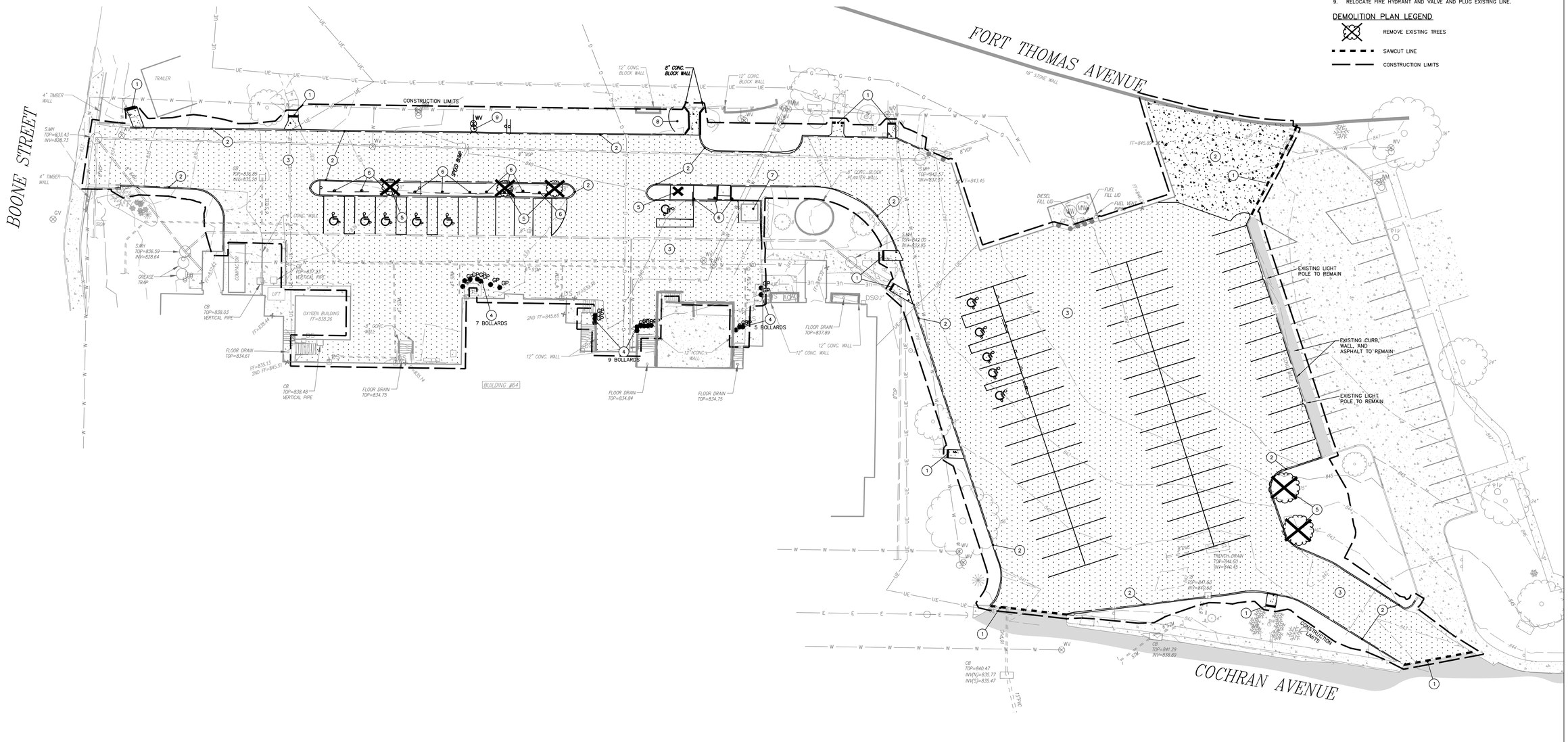
1. SAWCUT EX. PAVEMENT IN NEAT, STRAIGHT LINES TO CREATE A CLEAN JOINT. (TYPICAL ALL LOCATIONS.)
2. REMOVE CONCRETE FULL-DEPTH TO EXTENTS INDICATED, AND CURB AS NECESSARY TO THE NEAREST JOINT.
3. REMOVE ASPHALT TO EXTENTS INDICATED.
4. REMOVE BOLLARDS.
5. REMOVE TREE AND COORDINATE POSSIBLE RELOCATION WITH PROJECT ENGINEER.
6. REMOVE SIGN AND COORDINATE POSSIBLE RELOCATION WITH PROJECT ENGINEER.
7. SMOKING SHELTER TO REMAIN.
8. REMOVE LANDSCAPING.
9. RELOCATE FIRE HYDRANT AND VALVE AND PLUG EXISTING LINE.

DEMOLITION PLAN LEGEND

REMOVE EXISTING TREES

SAWCUT LINE

CONSTRUCTION LIMITS



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KLEINGERS & ASSOCIATES
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(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Drawing Title: DEMOLITION PLAN

Approved: Project Director

Project Title: Correct Access / Site Issues (FTD)

Location: Fort Thomas, Kentucky

Date: 11-30-12 | Checked: TEM | Drawn: MLZ

Project No.
VA Project No. 539-13-112
JPA Project No. 12027.00

Building Number: 64

Drawing Number: CS110

Office of Construction and Facilities Management
Department of Veterans Affairs

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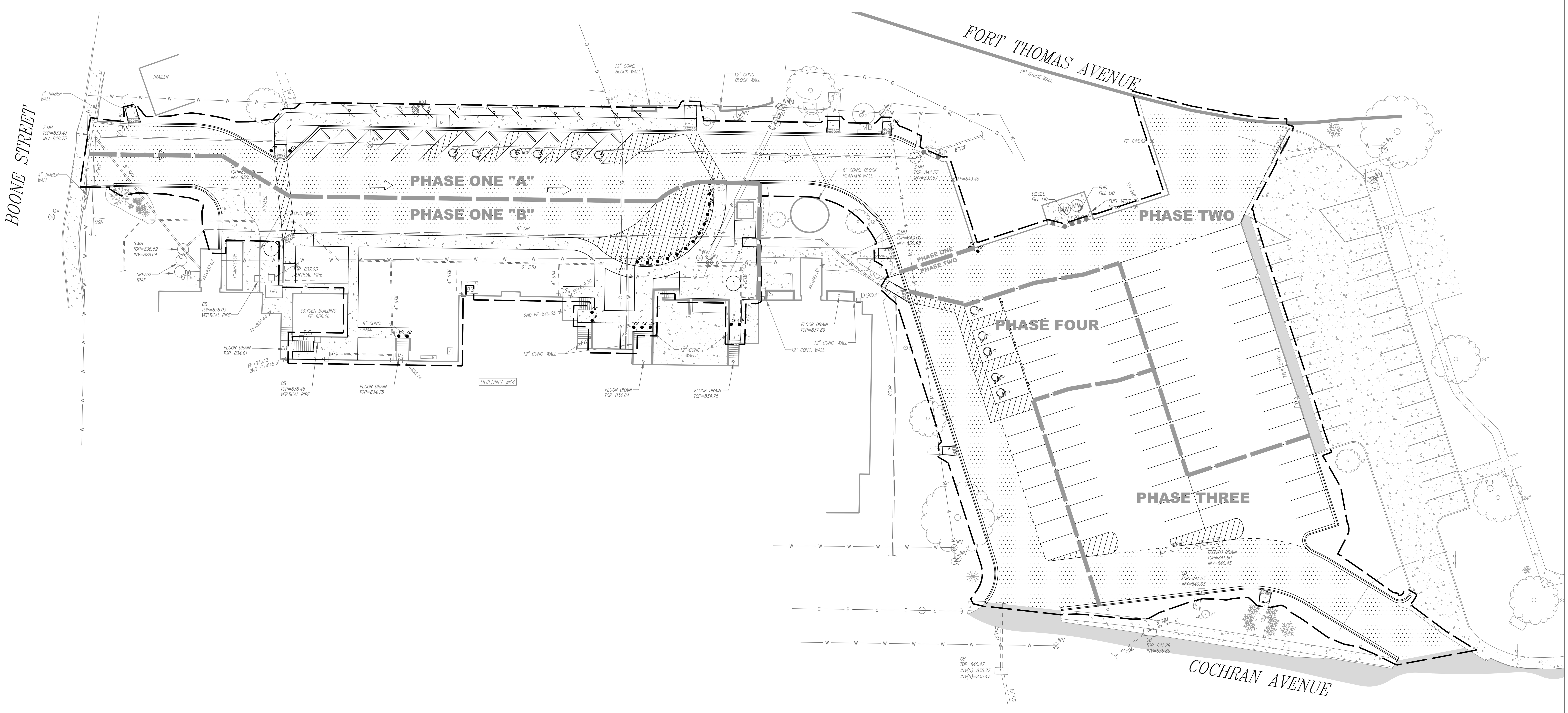
KEY NOTES

1. CONTRACTOR TO COORDINATE CONSTRUCTION AROUND LOADING AREA AND NORTH ELEVATOR/AMBULANCE ENTRANCE IN ORDER TO MAINTAIN ACCESS AT ALL TIMES.



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Revisions		Date

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KLEINGERS & ASSOCIATES
6305 Centre Park Drive, West Chester, OH 45069
(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Drawing Title	PHASING PLAN
Approved: Project Director	
Project Title	Correct Access / Site Issues (FTD)
Location	Fort Thomas, Kentucky
Date	11-30-12
Checked	TEM
Drawn	MLZ
Project No.	VA Project No. 539-13-112; JPA Project No. 12027.00
Building Number	64
Drawing Number	CS120

Office of Construction and Facilities Management
Department of Veterans Affairs

PROPOSED LEGEND

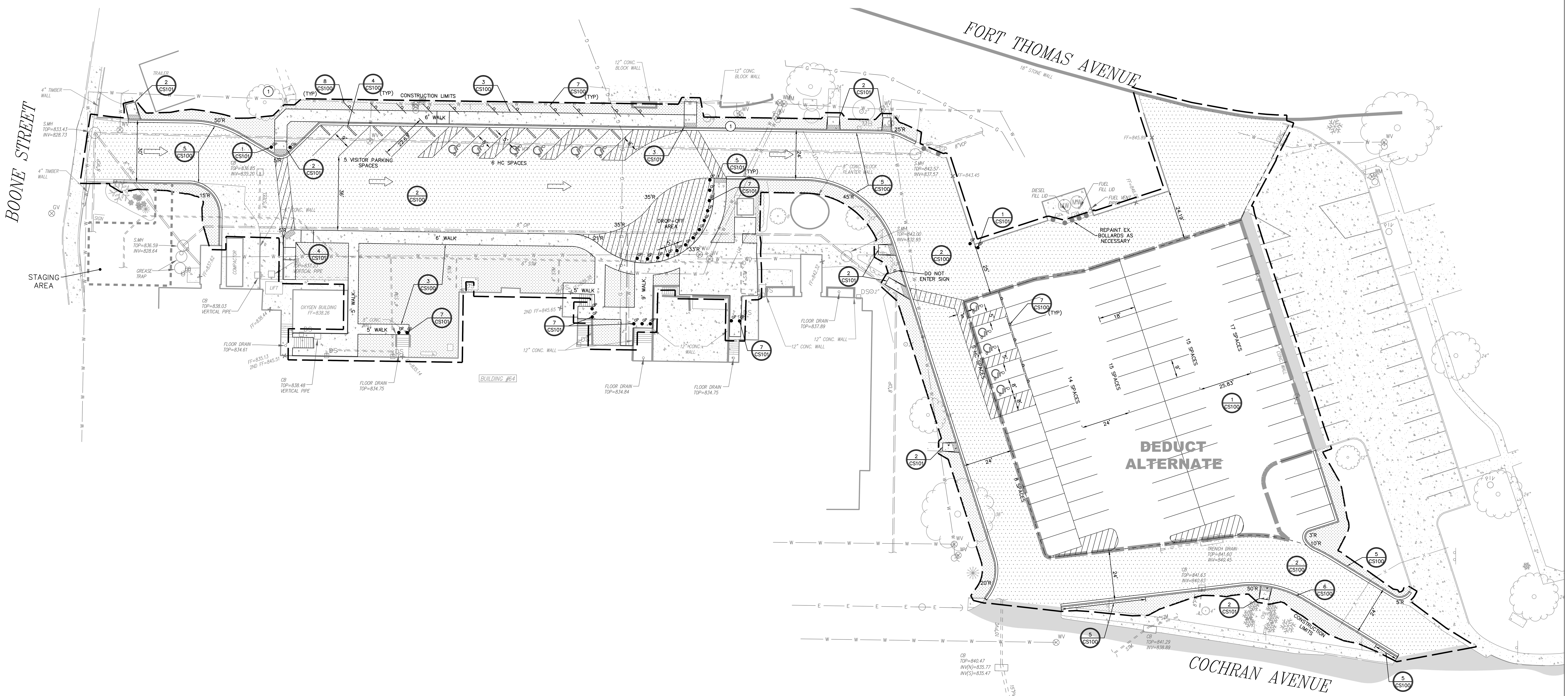
Symbol	Description
1/CS100	STANDARD DUTY ASPHALT
2/CS100	HEAVY DUTY ASPHALT
3/CS100	CONCRETE WALK
	AREAS TO BE SEEDED
1/CS101	SEE DETAIL 1 ON SHEET CS101

SITE INFORMATION

PARKING: 74 STANDARD (9'X18')
11 HANDICAP ACCESSIBLE (8'X18')
85 TOTAL

KEY NOTES

1. ALL CURB RADII ARE TO BACK OF CURB.
2. STAGING AREA MUST BE RETURNED TO EXISTING CONDITIONS WHEN COMPLETE. ANY OTHER AREAS NEEDED FOR STAGING MUST BE COORDINATED WITH PROJECT ENGINEER.
3. STAINLESS STEEL DECORATIVE BOLLARDS IN DROP OFF AREA AND ENTRANCES SHALL BE APPROVED BY PROJECT ENGINEER.
4. DEDUCT ALTERNATE ONE: MILL AND OVERLAY.
5. DEDUCT ALTERNATE TWO: NO WORK EXCEPT RESTRIPING OF THE PARKING LOT.
6. STAGING AREA LOCATED AT SOUTH SIDE OF EXISTING BUILDING.



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Revisions		Date

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6305 Centre Park Drive, West Chester, OH 45069
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www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Field	Value
Drawing Title	LOCATION PLAN
Approved: Project Director	
Project Title	Correct Access / Site Issues (FTD)
Location	Fort Thomas, Kentucky
Date	11-30-12
Checked	TEM
Drawn	MLZ
Project No.	VA Project No. 539-13-112; JPA Project No. 12027.00
Building Number	64
Drawing Number	CS121

Office of Construction and Facilities Management
Department of Veterans Affairs

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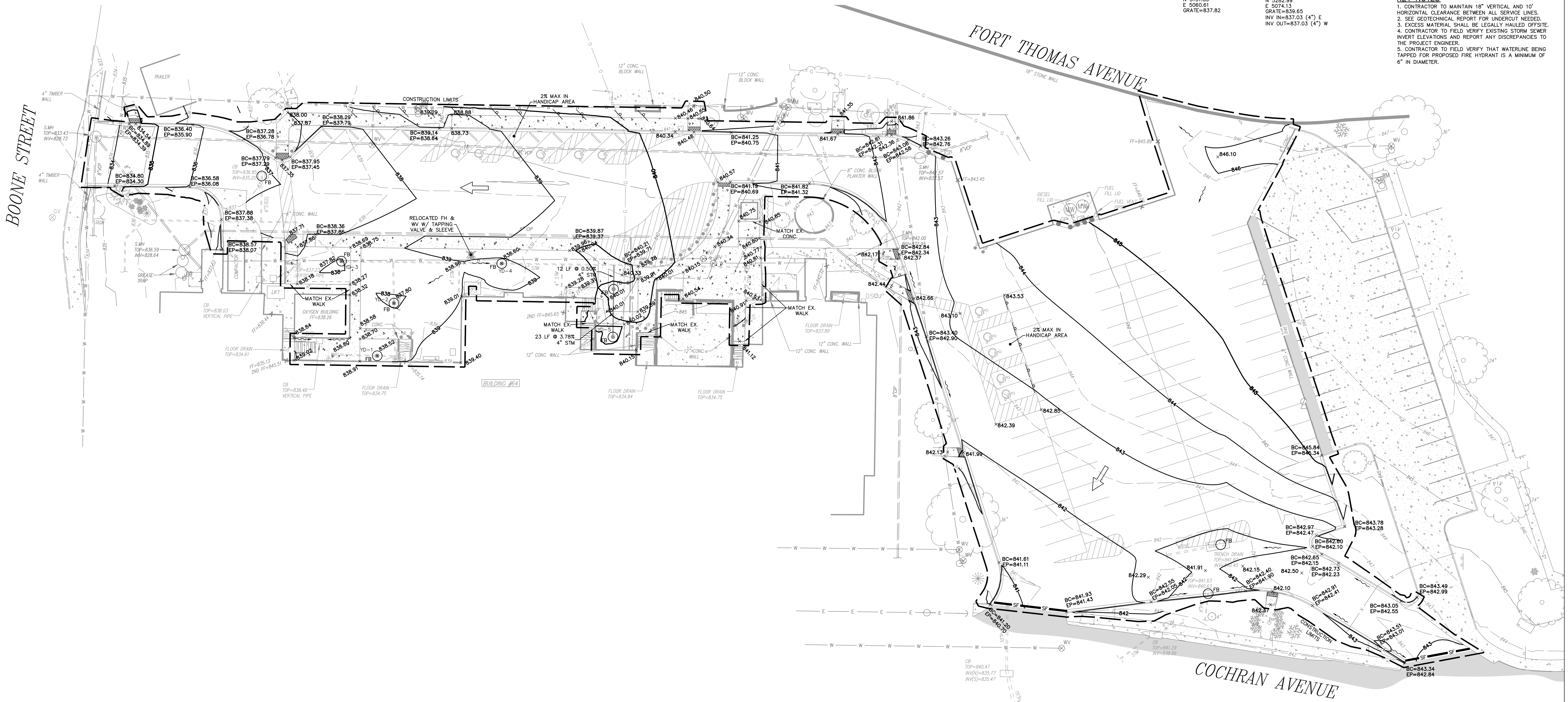


STORM SCHEDULE

YD-1
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
N 5169.06
E 5106.23
GRATE=838.52

YD-2
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
CONSTRUCT OVER EX. 4" STM.
N 5177.14
E 5080.86
GRATE=837.80

YD-3
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
CONSTRUCT OVER EX. 6" STM.
N 5151.85
E 5060.61
GRATE=837.82

YD-4
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
CONSTRUCT OVER EX. 4" STM.
N 5229.08
E 5061.76
GRATE=838.60

YD-5
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
N 5282.65
E 5097.16
GRATE=839.90
INV OUT=837.90 (4") W

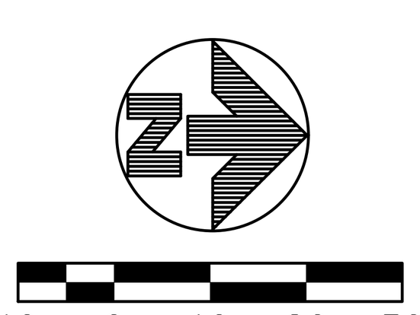
YD-6
8" YARD DRAIN W/
8" LIGHT DUTY
STANDARD GRATE
N 5282.99
E 5074.13
GRATE=839.65
INV IN=837.03 (4") E
INV OUT=837.03 (4") W

PROPOSED LEGEND

FB	FILTER BAG (SEE DETAIL ON SHEET CS100)
SF	SILT FENCE (SEE DETAIL ON SHEET CS100)
	DRAINAGE FLOW ARROW
	FLOOD ROUTE
841 / 840	PROPOSED CONTOURS
BC=842.75 / EP=842.25	PROPOSED SPOT ELEVATION AT B/C
842.75	PROPOSED SPOT ELEVATION

KEY NOTES

1. CONTRACTOR TO MAINTAIN 18" VERTICAL AND 10' HORIZONTAL CLEARANCE BETWEEN ALL SERVICE LINES.
2. SEE GEOTECHNICAL REPORT FOR UNDERCUT NEEDED.
3. EXCESS MATERIAL SHALL BE LEGALLY HAULED OFFSITE.
4. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER INVERT ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER.
5. CONTRACTOR TO FIELD VERIFY THAT WATERLINE BEING TAPPED FOR PROPOSED FIRE HYDRANT IS A MINIMUM OF 6" IN DIAMETER.



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Revisions | Date

CONSULTANTS:

KLEINGERS & ASSOCIATES
6305 Centre Park Drive, West Chester, OH 45069
(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
jpa@johnpoe.com

Drawing Title: UTILITY & GRADING PLAN

Approved: Project Director

Project Title: Correct Access / Site Issues (FTD)

Location: Fort Thomas, Kentucky

Date: 11-30-12 | Checked: TEM | Drawn: MLZ

Project No.: VA Project No. 539-13-112; JPA Project No. 12027.00

Building Number: 64

Drawing Number: CS130

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Department of Veterans Affairs

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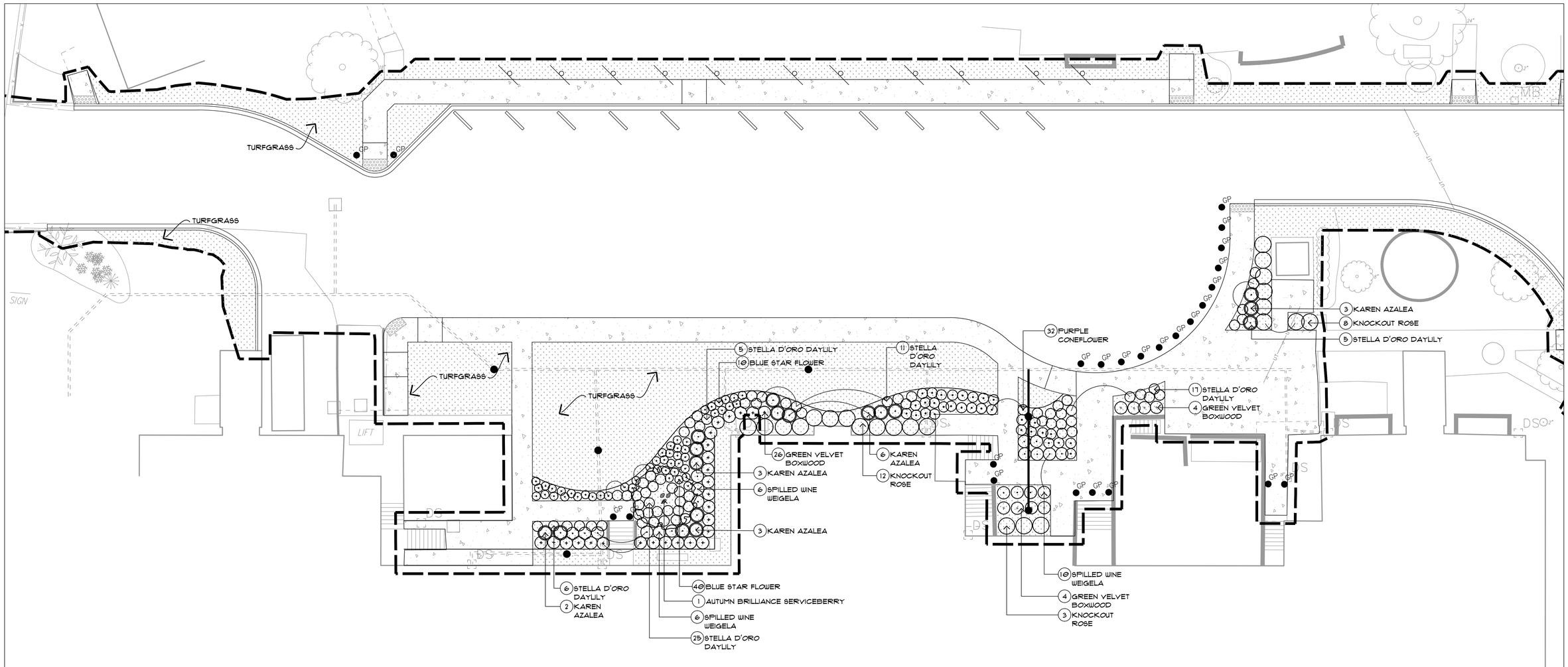
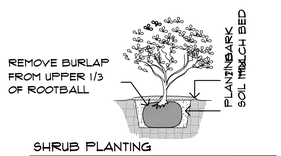
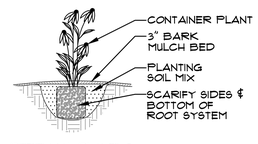


PLANT SCHEDULE

COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
TREES:				
AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	7'-8' HT.	B&B	
SHRUBS:				
GREEN VELVET BOXWOOD	BUXUS 'GREEN VELVET'	24"HT.X 24"SP.	CONT.	
SPILLED WINE WEIGELA	WEIGELA FLORIDA 'BOKRASPIWI'	#3	CONT.	
KAREN AZALEA	AZALEA 'KAREN'	#5	CONT.	
KNOCK OUT ROSE	ROSA X 'RADRAZZ'	#5	CONT.	
PERENNIALS AND GROUNDCOVER:				
STELLA D'ORO DAYLILY	HEMEROCALLIS 'STELLA D'ORO'	#2	CONT.	PLANT 2.5' O.C.
BLUE STAR FLOWER	AMSONIA X 'BLUE ICE'	#2	CONT.	PLANT 2' O.C.
PURPLE CONEFLOWER	ECHINACEA PURPUREA	#2	CONT.	PLANT 2.5' O.C.
TURFGRASS SEED				



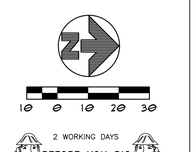
SHRUB PLANTING
NOT TO SCALE



PERENNIAL PLANTING
NOT TO SCALE

GENERAL PLANTING NOTES:

1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. ALL SHRUB MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. MULCH BEDS TO HAVE A NEAT, EDGED APPEARANCE.
3. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT KENTUCKY UNDERGROUND PROTECTION, INC. 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE FINE GRADED AND SEEDED.
5. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM.
6. THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING.
7. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
8. CONTRACTOR MAY USE ON SITE SOIL FOR PLANTING TOPSOIL. CONTRACTOR TO PUT DOWN 12-8-12 FERTILIZER BEFORE PLANTING OPERATIONS AT A RATE OF 8LBS PER 1000 SF.



BID DOCUMENTS - (FULLY SPRINKLERED)

Revisions	Date

CONSULTANTS:

KLEINGERS & ASSOCIATES
6305 Centre Park Drive, West Chester, OH 45069
(513) 779-7851 Fax (513) 779-7852
www.KLEINGERS.com

ARCHITECT/ENGINEERS:

JOHN POE ARCHITECTS
116 EAST THIRD STREET
DAYTON, OHIO 45402-2130
937 461 3290 PHONE
937 461 0260 FAX
joa@johnpoe.com

Drawing Title: LANDSCAPE PLAN (FOR REFERENCE ONLY)

Approved: Project Director

Project Title: Correct Access / Site Issues (FTD)

Location: Fort Thomas, Kentucky

Date: 11-30-12 | Checked: TEM | Drawn: MLZ

Project No.: VA Project No. 539-13-112; JPA Project No. 12027.00

Building Number: 64

Drawing Number: L100

Office of Construction and Facilities Management
Department of Veterans Affairs

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